

Video Cassette Recorder



Panasonic
OmniVision **VHS**

Operating Instructions

MODELS **PV-9400/PV-9450**

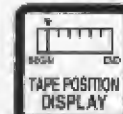


Please read these instructions carefully before attempting to connect, operate or adjust this product. Please save this manual.

Spanish Quick Use Guide is included. (Guía para rápida consulta en español está incluida.)

Quick Use Guide is on the back cover.

As an **ENERGY STAR®** Partner, Matsushita Electric Corporation of America has determined that this product or product model meets the **ENERGY STAR®** guidelines for energy efficiency.



For assistance, call 1-800-211-PANA(7262).

Basic Operation

Advanced Operation

For Your Information

Important Safeguards and Precautions

FOR YOUR SAFETY, READ AND RETAIN ALL SAFETY AND OPERATING INSTRUCTIONS. HEED ALL WARNINGS IN THE MANUAL AND ON THE UNIT

INSTALLATION

1 POWER SOURCE CAUTION

Operate only from a power source indicated on the unit or in this manual. If necessary, have your Electric Utility Service Company or Video Products Dealer verify the power source in your home.

2 POLARIZED OR GROUNDING PLUG

As a safety feature, this Video product comes with either a polarized power cord plug (one blade is wider than the other), or a three-wire grounding type plug.

POLARIZED PLUG CAUTION:

This plug will only fit into an outlet one way. If you cannot fully insert the plug, try reversing it. If it still will not fit, have an electrician install the proper wall outlet. Do not defeat the safety feature by tampering with the plug.

GROUNDING PLUG CAUTION:

This plug will only fit into a three-hole grounding outlet. If necessary, have an electrician install the proper outlet. Do not defeat the safety feature by tampering with the plug.

3 POWER CORD

Make sure power cords are routed so that they are not likely to have anything rest on them, roll over them, or be in the way of walking traffic. If an extension cord is used, make sure it also has either a polarized or grounded plug and that the cords can be securely connected. Frayed cords, damaged plugs, and damaged or cracked wire insulation are hazardous and should be replaced by a qualified service technician. Overloaded outlets and extension cords are fire hazards and should be avoided.

4 DO NOT BLOCK VENTILATION HOLES

Ventilation openings in the cabinet release heat generated during operation. If they are blocked, heat build-up inside the unit can cause failures that may result in a fire hazard or heat damage to cassettes. For protection, follow these rules:

- Never cover ventilation slots or the unit while in use, or operate the unit when placed on a bed, sofa, rug, or other soft surface.
- Avoid built-in installation, such as a book case or rack, unless proper ventilation is provided.

5 AVOID EXTREMELY HOT LOCATIONS OR SUDDEN TEMPERATURE CHANGES

Do not place the unit over or near any kind of heater or regulator, in direct sunlight, inside a closed vehicle, etc.. Do not move the unit suddenly between areas of extreme temperature variation. If the unit is suddenly moved from a cold place to a warm place, moisture may condense in the unit and on the tape.

6 TO AVOID PERSONAL INJURY

- Do not place unsecured equipment on a sloping surface.
- Do not place this unit on any support that is not firm, level, and adequately strong. The unit could fall causing serious injury to a child or adult and damage to the unit.
- An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.
- Carefully follow all operating instructions and use the manufacturer's recommended accessories when operating this unit or connecting it to any other equipment.

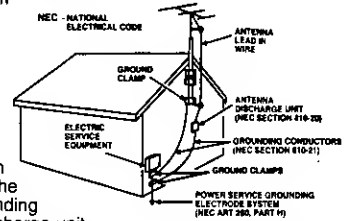


OUTDOOR ANTENNA INSTALLATION

1 SAFE ANTENNA AND CABLE CONNECTION

If an outside antenna or cable system is connected to the equipment, be sure the antenna or cable system is grounded so as to provide some protection against built up static charges and voltage surges.

Section 810 of the National Electrical Code, ANSI/NFPA 70 (in Canada, part 1 of the Canadian Electrical Code) provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes and requirements for the grounding electrode.



2 KEEP ANTENNA CLEAR OF HIGH VOLTAGE POWER LINES OR CIRCUITS

An outside antenna system should be located well away from power lines, electric light or power circuits and where it will never come into contact with these power sources if it should happen to fall. When installing an outside antenna, extreme care should be taken to avoid touching power lines, circuits or other power sources as this could be fatal. Because of the hazards involved, antenna installation should be left to a professional.

USING THE VIDEO UNIT

If the unit has been in storage or moved to a new location, refer first to the **INSTALLATION** section of these safeguards.

1 KEEP THIS VIDEO UNIT AWAY FROM WATER OR MOISTURE OF ANY KIND.

2 IF EQUIPMENT IS EXPOSED TO RAIN, MOISTURE, OR STRONG IMPACT, unplug the unit and have it inspected by a qualified service technician before use.

3 DURING AN ELECTRICAL STORM

During a lightning storm, whether indoors or outdoors, or before leaving the unit unused for extended periods of time, disconnect all equipment from the power source as well as the antenna and cable system.

4 WHEN THE UNIT IS PLUGGED IN

- Never expose the unit to rain or water. **DO NOT OPERATE** if liquid has been spilled into the unit. Immediately unplug the unit, and have it inspected by a service technician. Fire and shock hazards can result from electrical shorts caused by liquid contact inside.
- Never drop or push any object through openings in the unit. Some internal parts carry hazardous voltages and contact can cause electric shock or fire hazard.
- Avoid placing the unit directly above or below your TV set as this may cause electrical interference. Keep all magnets away from electronic equipment.

5 USING ACCESSORIES

Use only accessories recommended by the manufacturer to avoid risk of fire, shock, or other hazards.

6 CLEANING THE UNIT

Unplug the unit. Then, use a clean, dry, chemically untreated cloth to gently remove dust or debris. **DO NOT USE** cleaning fluids, aerosols, or forced air that could over-spray, or seep into the unit and cause electrical shock. Any substance such as wax, adhesive tape, etc. may mar the cabinet surface. Exposure to greasy, humid, or dusty areas may adversely affect internal parts.

SERVICE

1 DO NOT SERVICE THIS PRODUCT YOURSELF

If, after carefully following the detailed operating instructions, this Video product does not operate properly, do not attempt to open or remove covers, or make any adjustments not described in the manual. Unplug the unit and contact a qualified service technician.

2 IF REPLACEMENT PARTS ARE REQUIRED

Make sure the service technician uses only parts specified by the manufacturer, or those having the same safety characteristics as the original parts. The use of unauthorized substitutes may result in fire, electric shock, or other hazards.

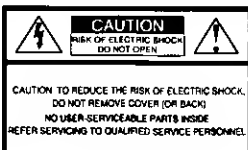
3 HAVE THE SERVICE TECHNICIAN PERFORM A SAFETY CHECK

After any service or repairs to the unit, request the service technician to conduct a thorough safety check as described in the manufacturer's service literature to insure that the video unit is in safe operating condition.

Safety Precautions

Warning: To prevent fire or shock hazard, do not expose this equipment to rain or moisture.

CAUTION: To prevent electric shock, match wide blade of plug to wide slot, fully insert.



This symbol warns the user that uninsulated voltage within the unit may have sufficient magnitude to cause electric shock. Therefore, it is dangerous to make any kind of contact with any inside part of this unit.

This symbol alerts the user that important literature concerning the operation and maintenance of this unit has been included. Therefore, it should be read carefully in order to avoid any problems.

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Now!

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Basic Operation

Enjoy
more!

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For Your Information

Congratulations

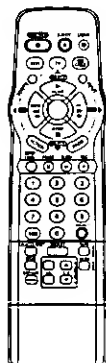
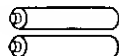
on your purchase of one of the most sophisticated and reliable products on the market today. Used properly, it will bring you and your family years of enjoyment. Please fill in the information below. The serial number is on the tag located on the back of your VCR.

- Date of Purchase _____
- Dealer Purchased From _____
- Dealer Address _____
- Dealer Phone No. _____
- Model No. _____
- Serial No. _____

Accessories

- ☐ Remote Control
- ☐ Batteries 2 "AA"

VSQS1597 (PV-9400)
VSQS1596 (PV-9450)



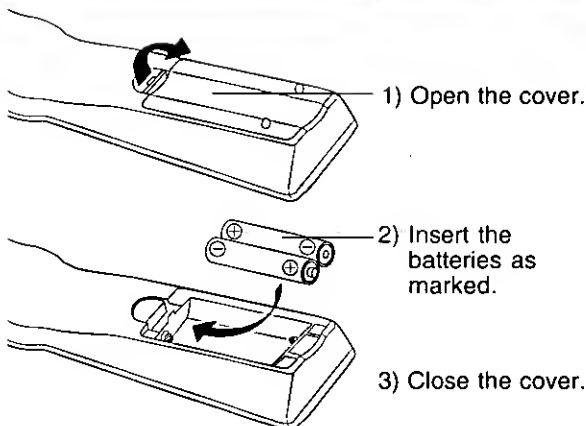
Model PV-9450 remote is shown here.

- ☐ RF Coaxial Cable VJAS0196



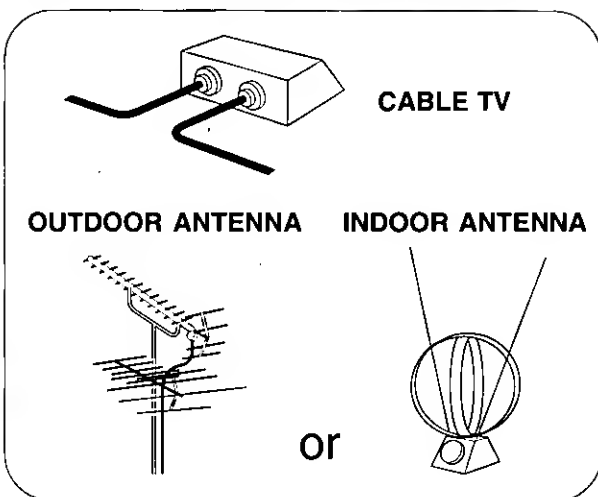
To order accessories, call toll free 1-800-332-5368.

Loading the Batteries

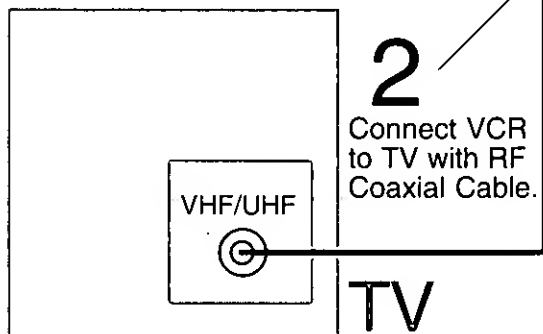
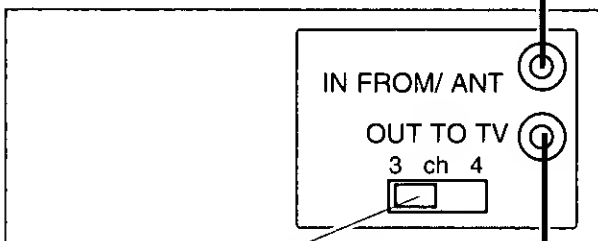


- ☐ **Battery replacement caution**
 - Do not mix old and new batteries.
 - Do not mix alkaline with manganese batteries.

ANTENNA (See page 5)



VCR



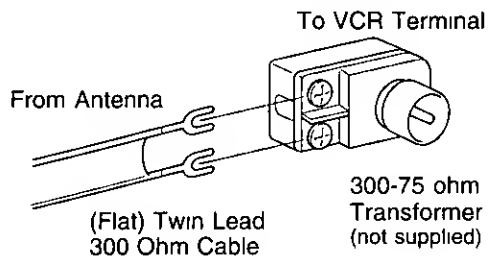
Tune TV to VCR output channel the same one you set in step 3.

WARNING

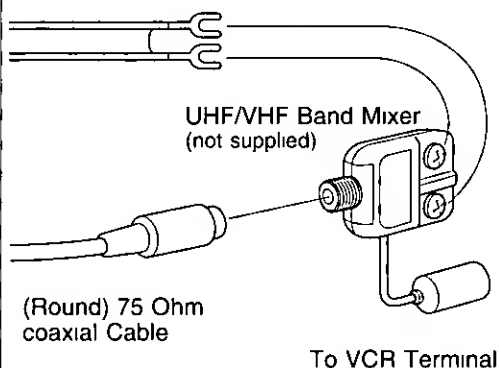
When using "Nut type" RF coaxial cables, tighten with fingers only. Overtightening may damage terminals.

1 Between ANT. and VCR

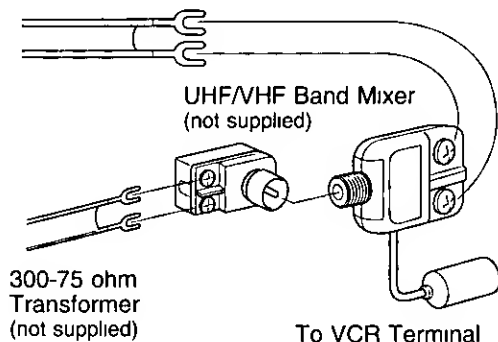
■ Case 1 Twin Lead Cable Only



■ Case 2. Twin Lead & Coaxial Cables



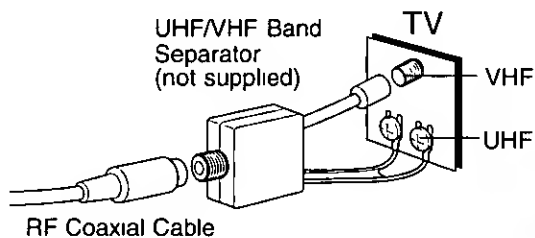
■ Case 3 Two Twin Lead Cables



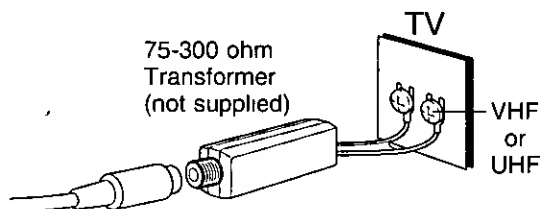
- If your TV has both post and plug-type VHF terminals, the post connection is recommended to minimize signal loss

2 Between VCR and TV

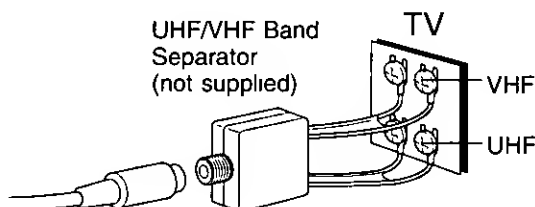
■ Case 1: Screw & Plug Type Terminal



■ Case 2: Screw Type Terminal

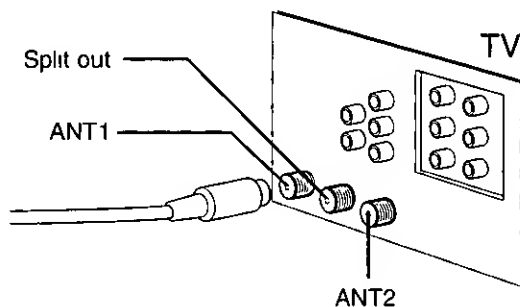


■ Case 3. Double Screw Type Terminal



■ Case 4: Complex TV Terminal

TERMINALS ON BACK OF TV SET



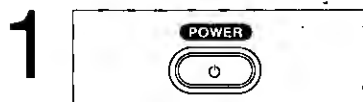
- Connect to one of the ANT terminals and select the same antenna number on the TV

One Time VCR Setup

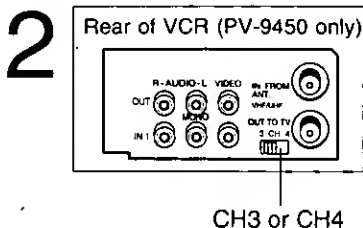
When VCR is turned on the first time, setup mode is entered automatically.

Process of Setup

Language → Channel → Clock

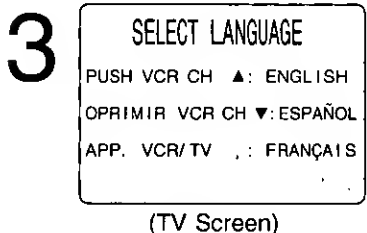


Turn the TV and VCR on.
Press POWER.*

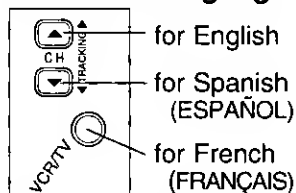


Tune to VCR output channel.
Tune TV to CH3 or CH4.
(Same as back of VCR)

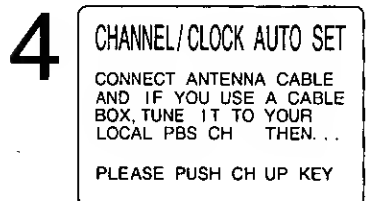
- Always tune TV to this channel to monitor the VCR.
- If you used audio/video jack connection, tune the TV to its video input.



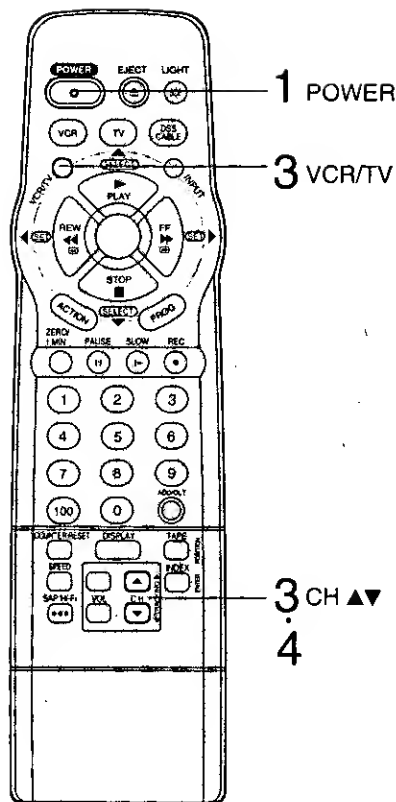
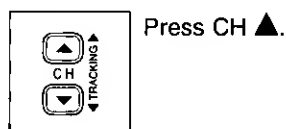
Select the language.



- Use remote or VCR buttons.
- If wrong language is set, do "Reset all VCR Memory Functions" steps page 30.



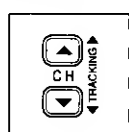
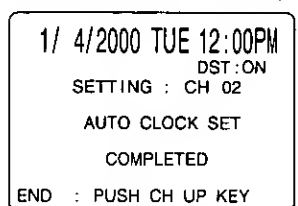
Start Channel Auto Set and Clock Auto Set.



Model PV-9450 remote is shown here.

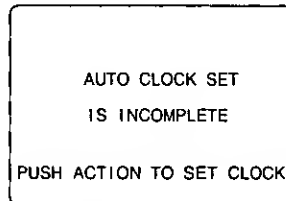


Case 1 (Setup completed)



Press CH ▲ to exit.
• If your area observes DST (daylight saving time), but the time is incorrect; do the "Time Zone Adjust" steps on page 29.

Case 2 (Setup incomplete)

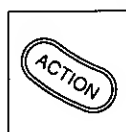


See next page.

Case 2 Clock Setup incomplete.

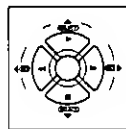
AUTO CLOCK SET
IS INCOMPLETE
PUSH ACTION TO SET CLOCK

Set the clock manually



1) Press ACTION

SET CLOCK
1/1/--- DST ON
SELECT MONTH
SELECT ▲ ▼ KEY
SET ► KEY
END ACTION KEY



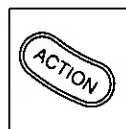
2) Press ▲▼ to select month

3) Press ► to set

- Likewise, set date, year, time, DST (Daylight Saving Time)

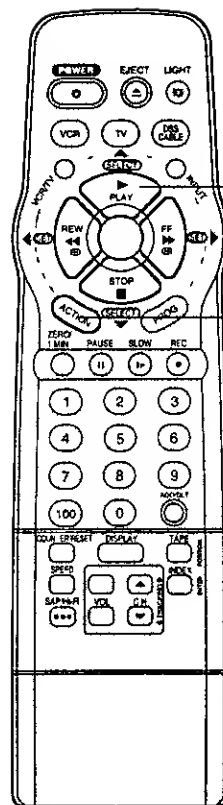
To Make Corrections,
repeatedly press ◀▶ to move to error, then correct

SET CLOCK
1/ 4/2000 TUE 12:00PM DST ON
SET COMPLETED
SET ◀ ▶ KEY
START ACTION KEY



4) Press ACTION (Clock starts)

- For exit this mode, press ACTION again



SELECT/
SET
▲ PLAY
▼ STOP
◀ REW
▶ FF

ACTION

Model PV-9450 remote is shown here

Notes

- VCR calendar is accurately maintained to Dec 31, 2096 11 59PM
- Channel auto set selects normal TV or Cable channels depending on your VCR hookup

IMPORTANT NOTE FOR AUTO CLOCK SET

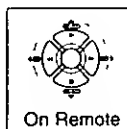
- Auto clock set is performed the first time the VCR is turned off each day. If used, a cable box must be left on and tuned to the PBS channel at the time VCR power is turned off if you want auto clock set to be done
- If used, a DSS receiver must be turned off for auto clock set
- If Cable Box or DSS receiver is connected to VCR via Audio/Video jacks, an RF coaxial cable must also be connected for auto clock set and channel auto set features

Using ▲▼◀▶ keys

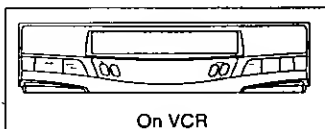
You can also operate the menu screen using VCR buttons

If you use VCR buttons, press CH ▲ and CH ▼ together to display the menu screen

When menu screens are displayed, PLAY, STOP, REWIND, and FF buttons function as ▲▼◀▶ only



On Remote



On VCR

▲ PLAY
▼ STOP
◀ REW
▶ FF

Playback a Tape



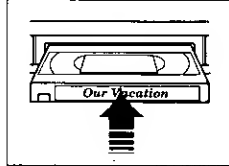
Check list before you begin.

- ☐ All connections are made.
- ☐ TV and VCR are plugged in.
- ☐ TV is turned on and set to the VCR channel (CH 3 or 4).
- ☐ Remote is in VCR mode.

1



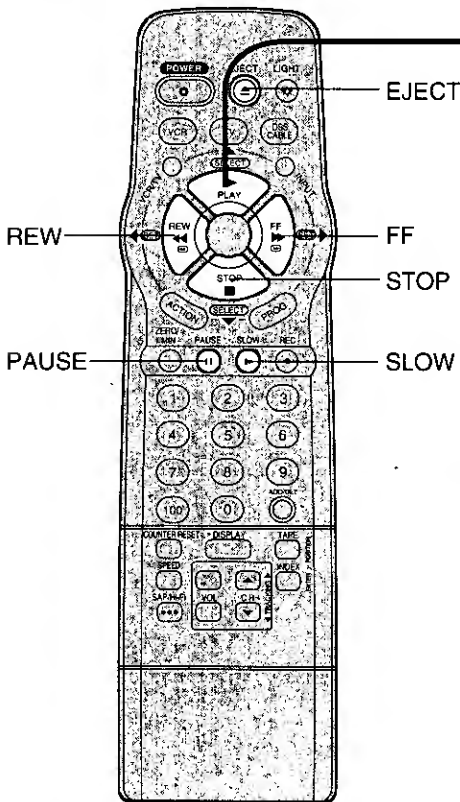
STOP/ EJECT



Insert a cassette.

- VCR power comes on and VCR appears on display.

2



Press PLAY.

- Playback begins if cassette has no record tab.

- To Find a Particular Scene
Forward Search --> Press FF.
Reverse Search --> Press REW.
- For Slow Motion --> Press SLOW.
(To release, press SLOW.)
- For Still (Freeze) picture --> Press PAUSE.
(To release, press PAUSE.)
- For Frame by Frame picture --> Press SLOW in Still mode.
(To release, press PAUSE.)

Notes

- To reduce picture noise, see "Manual Tracking Control" on page 31.
- After the VCR is in Still or Slow mode for 3 minutes, it will switch to Stop mode automatically to protect the tape and the video head.

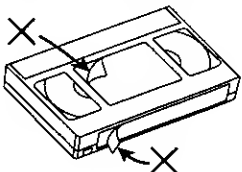
- To stop --> Press STOP.
- To rewind tape --> Press REW in Stop mode.
- To eject tape --> Press EJECT on the remote or STOP/ EJECT on the VCR.

Model PV-9450 remote is shown here.

Note

● To prevent tape jam

Inspect your cassette tapes and remove any loose or peeling labels.



Playback using VCR controls

1 Insert a cassette.

2 Press PLAY.

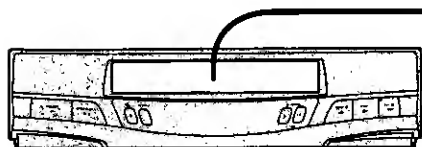


- Press to stop and/ or eject tape.

Record On a Tape

*Important:

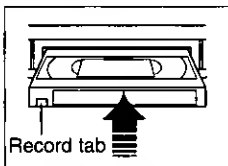
If the remote control POWER, ACTION, PROG, CH ▲/▼, INDEX, NUMBERED keys, INPUT, TAPE POSITION, or ADD/ DLT button does not work when pressed, press the VCR button on the remote and try the button again.



Check list before you begin.

- ☐ All connections are made.
- ☐ TV is turned on and set to the VCR channel (CH 3 or 4).
- ☐ Cassette with record tab in place.
- ☐ Remote in VCR mode.

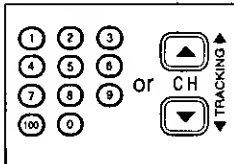
1



Insert a cassette.

- VCR power comes on automatically.

2

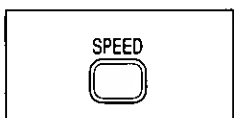


Select Channel.

Press CH ▲/▼ or NUMBERED keys.

- To select "LINE", see page 19.
- To select channels over 100, first press 100 key, then enter remaining two digits.

3



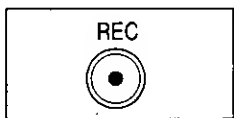
Select Recording speed.

(See page 30.)

Press SPEED.

- SP = Standard Play
- LP = Long Play
- SLP = Super Long Play
- Selected speed is displayed on TV screen.

4



Start Recording.

Press REC.

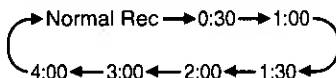
- To edit out unwanted portions, press PAUSE to pause and resume recording.

■ To stop --> Press STOP

■ One Touch Recording

Press REC repeatedly to set the recording length (30 min. ~ 4 hours).

- The VCR turns itself off at a preset time.



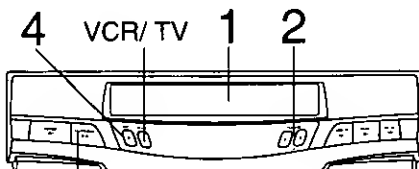
■ Record One Program While Watching Another

Press VCR/TV--> "VCR" disappears on VCR display --> Select Channel at the TV.

■ Selecting Channel at the VCR

Press VCR/TV--> "VCR" appears on VCR display --> Select Channel at the VCR.

You can operate on the VCR



■ Press to stop.

Model PV-9450 remote is shown here.

Note

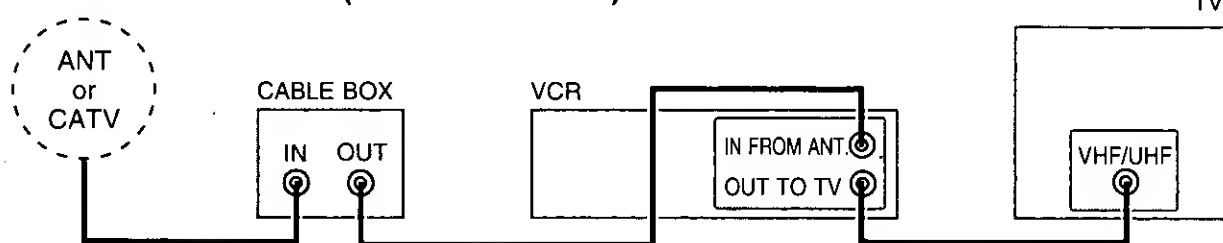
After the VCR has been in Pause mode for 5 minutes, it will stop automatically to protect the tape and the video head.

CATV Connection

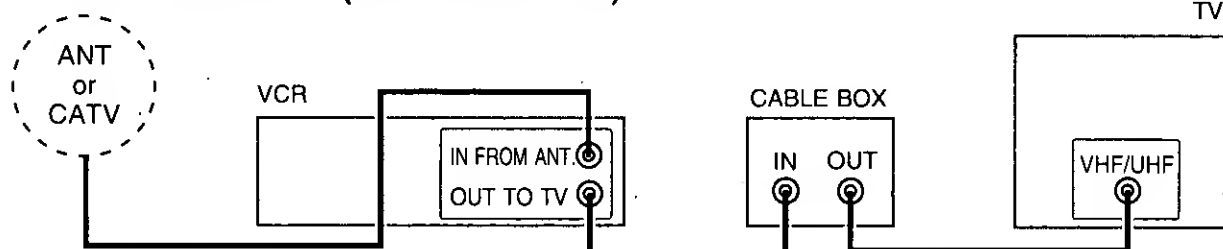
Make sure tune TV to VCR output channel the same one you set on back of VCR: CH3 or CH4.

All connections on these pages are made with 75 Ohm coaxial cables.

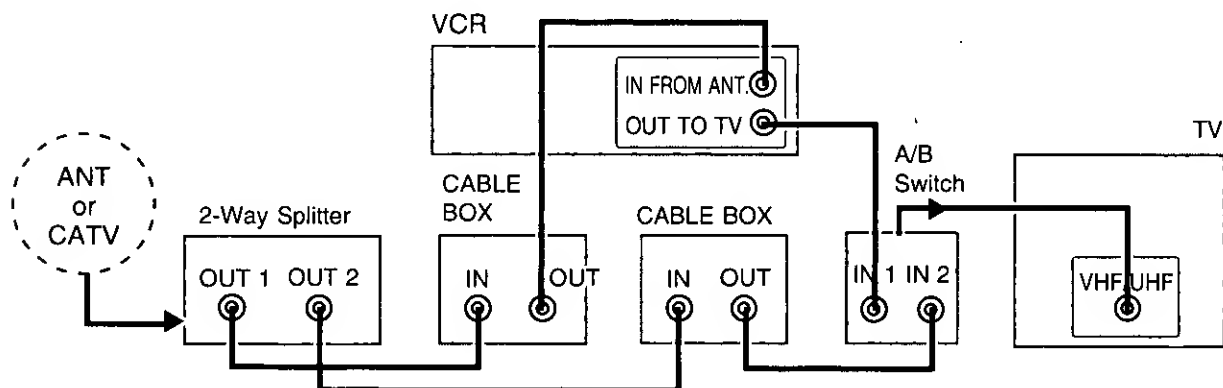
■ With a Cable Box (Cable Box → VCR)



■ With a Cable Box (VCR → Cable Box)

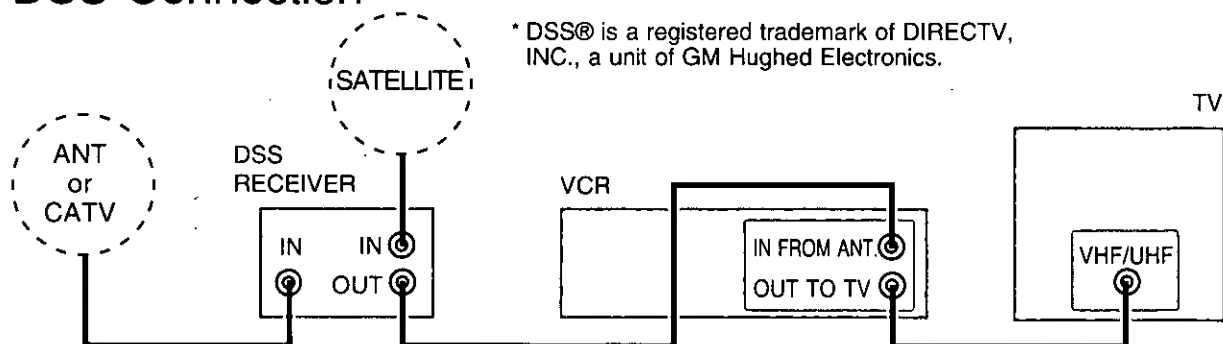


■ With Two Cable Boxes



DSS Connection

* DSS® is a registered trademark of DIRECTV, INC., a unit of GM Hughes Electronics.



You Can

- record or view any (including scrambled) channel
- use VCR Remote Control to select channels using Multi-brand control feature

You Cannot

- view channel other than the one selected for any type of recording
- do a Timer recording of a channel unless you select it at the cable box

- view any (including scrambled) channel
- use VCR Remote Control to select channels without using Multi-brand control feature

- record scrambled channels

- record and view both scrambled and unscrambled channels if additional equipment is added. This connection requires two converter boxes, an A/B switch, and a 2-way splitter

- view channel other than the one selected for any type of recording
- do a Timer recording of a channel unless you select it at the cable box

- record and view any (including scrambled) channel
- use your VCR Remote Control to select channels using Multi-brand control feature

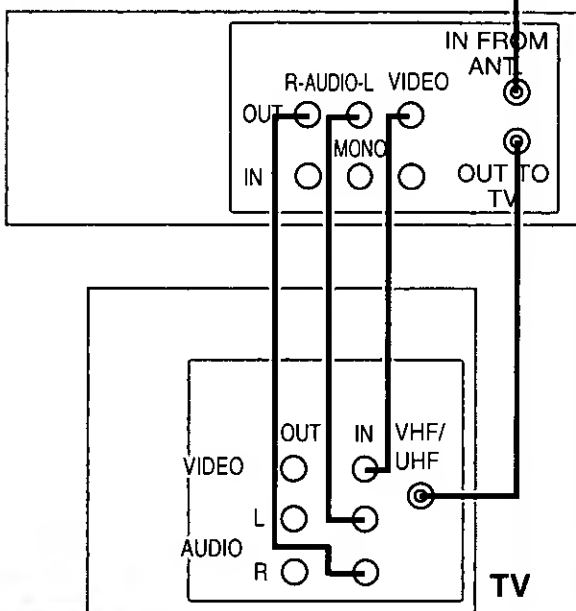
- view channel other than the one selected for any type of recording
- do a Timer recording of a channel unless you select it at the DSS box

NOTE
DSS receiver must be turned off to view cable box or antenna programs

Audio/Video Connections

If your TV has AUDIO and VIDEO IN terminals, connect them to VCR for higher quality picture and sound. You can enjoy stereo sound even if your TV is not stereo by connecting a stereo amplifier to the VCR.

VCR



Note

To use your TV as a VCR monitor, set the VIDEO/TV selector on the TV (Monitor/Receiver) to "VIDEO". For model PV-9450, use the L Audio IN jack for proper sound reduction when connecting to a monaural TV.

Note to CABLE system installer



This reminder is provided to call the CABLE system installer's attention to Article 820-40 of the NEC in USA (and to the Canadian Electrical Code in Canada) that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

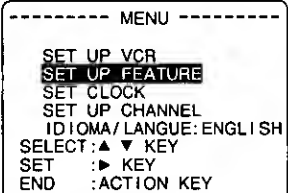
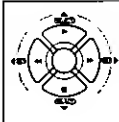
FCC Warning Any unauthorized changes or modifications to this equipment would void the user's authority to operate.

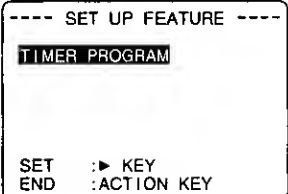
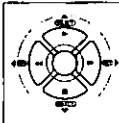
This video recorder, equipped with the HQ (High Quality) System, is compatible with existing VHS equipment. Only use those tapes with the **VHS** mark. It is recommended that only cassette tapes that have been tested and inspected for use in 2, 4, 6, and 8 hour VCR machines be used.

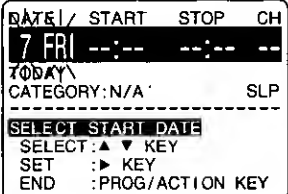
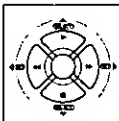
Timer Recording

You can set up to 8 programs to be recorded while you are away.

- 1**  **Display menu.** Press ACTION.* **or**  **Display program screen.**
- 1) Press PROG.
 - 2) Go to step 4.
- * You can also set up using VCR buttons. See the bottom right of this page.
 - * If a program is already in memory, press ▲▼ and ► to select an unused program number.

- 2**  **Display SET UP FEATURE.**
- 
- 1) Press ▲▼ to select.
 - 2) Press ► to display.

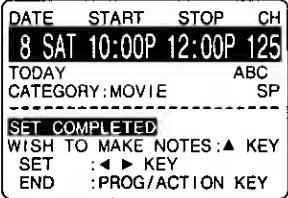
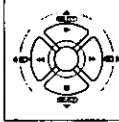
- 3**  **Display Program screen.**
- 
- 1) Press ► to display.
- * If a program is already in memory, press ▲▼ and ► to select an unused program number.

- 4**  **Set the recording DATE.**
- 
- 1) Press ▲▼ to select.
 - 2) Press ► or ◀ to set.
- * 1-31 = One time
 - * DAILY = MON-FRI
 - * WEEKLY = Same time once a week

Example Today — 7 — 8-9.....31 — 1 — 2.....6 — DAILY

WEEKLY (SAT) — WEEKLY (MON) — WEEKLY (SUN)

Repeat step 4 to set: start time, stop time, Channel (or LINE for outside source), Category*, tape speed (SP, LP, SLP).

- 5**  **Make the notes.**
- 
- 1) Press ▲ to begin.
 - 2) Press ▲▼ to select.
 - 3) Press ► to set.
- * If not wanted, go to step 6.
 - * Characters will change in the following order.

→ A ↔ B ↔ C ↔ ... Z ↔ BLANK ↔ ... ↔ 8 ↔

9 ↔ ... 2 ↔ 1 ↔ 0 ↔ ... ↔ ! ↔

4) Press PROG (or ACTION) to end.

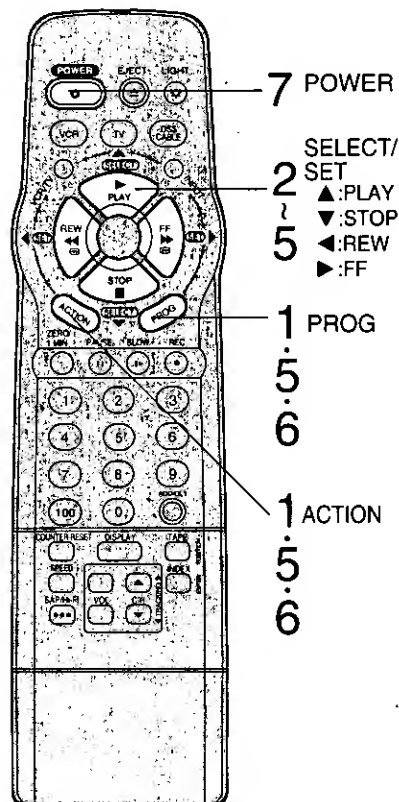
Continued on the next page.

Important notes when using a DSS receiver

- * When recording programs via a DSS receiver, the DSS receiver must be left on.
- * When recording programs via an antenna or cable, the DSS receiver must be turned off.

Check list before you begin.

- ☐ All connections are made. (See pages 4-5.)
- ☐ TV and VCR are plugged in and turned on.
- ☐ VCR/TV selector is set to "VCR."
- ☐ Clock is set to correct time.
- ☐ Record tab in place. (See page 30.)
- ☐ Remote in VCR mode.



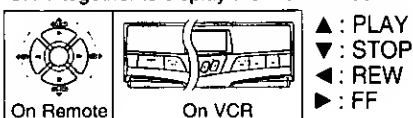
Model PV-9450 remote is shown here.

*Category Items
N/A(not applicable), SPORTS, MOVIE, COMEDY, MUSIC, DRAMA

Using ▲▼◀▶ keys

You can also operate the menu screen using VCR buttons.

If you use VCR buttons, press CH ▲ and CH ▼ together to display the menu screen.



When menu screens are displayed, PLAY, STOP, REWIND, and FF buttons function as ▲▼◀▶ only.

Important: If the remote control POWER, ACTION, PROG, CH▲/▼, INDEX, MENU keys, INPUT, TAPE POSITION, or ADD/HLT button does not work when pressed, press the VCR button on the remote and try the button again.

6

P	DT	START	STOP	CH	SPD
1	8	10:00P	12:00P	125	SP
2	---	---	---	---	---
3	---	---	---	---	---
4	---	---	---	---	---

CANCEL: ADD/HLT KEY
SELECT 1-8: ▲ ▼ KEY
ENTER: ► KEY
END: PROG/ACTION KEY

End the program.



- 1) Press PROG (or ACTION).

To Enter More Programs

Press ▲▼ to select, and ► to display a blank program number. Then repeat steps 4 and 5.

- 2) Press PROG (or ACTION) again to exit.

To cancel Timer Recording (Recording is in progress)

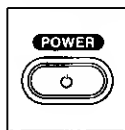
Press POWER and then STOP within 10 seconds to cancel the Timer recording. (The TIMER indicator goes out in the Multi Function Display.)

7



Multi Function Display

Set the timer.



Press Power OFF.

- When recording programs via a cable box, make sure the cable box is left ON and tuned to the desired channel.

Review, Replace or Clear Program Contents:

(Recording is not in progress)

a

Repeat steps 1-3 on page 12.

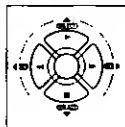
- If necessary, press POWER ON.

b

P	DT	START	STOP	CH	SPD
1	DAY	9:00A	12:00A	08	SP
2	8	10:00P	12:00P	125	SP
3	10	8:00P	9:00P	10	SP
4	SU	9:00P	10:00P	L	LP

CANCEL: ADD/HLT KEY
SELECT 1-8: ▲ ▼ KEY

Select program.

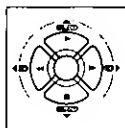


- 1) Press ▲▼ to select number.

c

To Replace program...

DATE	START	STOP	CH
8 SAT 10:00P	12:00P	125	SP
7000Y\ ABC SP			
CATEGORY: MOVIE			
NOTES: STAND BY ME			
SELECT: START DATE			
SELECT: ▲ ▼ KEY			
SET: ◀ ▶ KEY			

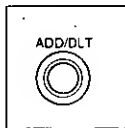


- 1) Press ► to display.
- 2) Press ▲▼◀▶ to set new program contents.

To Clear program...

P	DT	START	STOP	CH	SPD
1	---	---	---	---	---
2	8	10:00P	12:00P	125	SP
3	10	8:00P	9:00P	10	SP
4	SU	9:00P	10:00P	L	LP

SELECT 1-8: ▲ ▼ KEY
ENTER: ► KEY



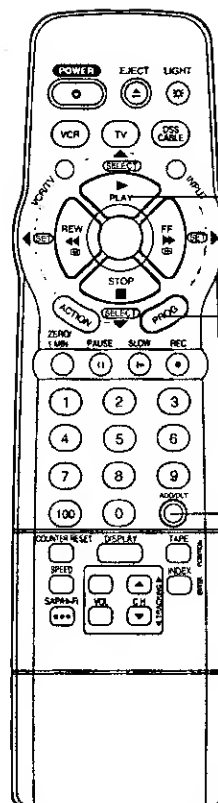
- 1) Press ADD/HLT.

d



End the program.

- 1) Press PROG (or ACTION) twice.
- If there are programs, press POWER OFF.



SELECT/SET
b ▲: PLAY
▼: STOP
c ◀: REW
▶: FF

d PROG

C ADD/DELETE

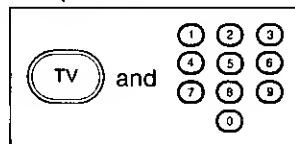
Multi-Brand Control Feature

The Remote Control may be set up to control some TV or Cable/DSS Box functions.

Multi-Brand Control Setup

1 Find your TV, Cable or DSS Receiver Brand Code Number on following page.

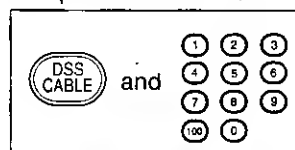
2 Setup for TV



Setup remote.

Hold down TV and enter code with NUMBERED keys.

Setup for Cable or DSS



Hold down DSS/CABLE and enter code with NUMBERED keys.

- For code 100 or greater, press the 100 key first, then remaining digit. E.g. for 102, press 100, then press 0, and then press 2.

3



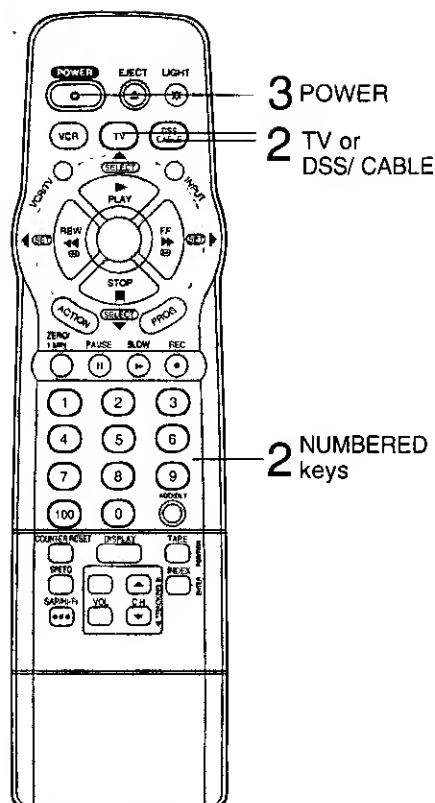
Confirm code entry.

Press POWER to turn selected unit ON or OFF.

- See table below for list of controllable functions in each mode.

Notes

- Please repeat Multi-Brand Control setup after replacing remote control batteries.
- The remote control will not operate all TVs, Cable Boxes, and DSS receivers made by manufacturers listed. If you get no results, your particular brand cannot be controlled.



Model PV-9450 remote is shown here.

Using the Multi-Brand Control

After remote control is setup, you can select VCR, TV, or DSS/CABLE for the desired function.

Press **VCR** or **TV** or **DSS/CABLE** on the remote control.

This table shows which buttons are available for each mode.

Mode \ Available Buttons	VCR	TV	CABLE/ DSS
VCR	All Functions	VOL UP/DOWN	_____
TV	VCR/TV, PLAY, STOP, EJECT, SAP/ Hi-Fi (PV-9450 only), DISPLAY, FF, REW, PAUSE, SLOW, REC, SPEED, ZERO/ 1MIN, COUNTER RESET	POWER, INPUT, NUMBERED keys, ENTER, CH UP/ DOWN, VOL UP/DOWN	_____
CABLE/ DSS	VCR/TV, PLAY, STOP, EJECT, SAP/ Hi-Fi (PV-9450 only), DISPLAY, FF, REW, PAUSE, SLOW, REC, SPEED, ZERO/ 1MIN, COUNTER RESET	VOL UP/ DOWN	POWER, ENTER, NUMBERED keys (except 100key), CH UP/ DOWN

Note In TV or DSS/ CABLE mode, it may be necessary to press ENTER after pressing NUMBERED keys for channel selection.

TV Brand Code Numbers

Panasonic	01, 02	Sylvania	05	JVC	11
Quasar	01, 02	Sharp	06, 07	Hitachi	12
RCA	03	Sony	08	Mitsubishi	07, 13
GE	03	Toshiba	09	Samsung	14
Zenith	04	Sanyo	10	Gold Star	15, 16, 17
Magnavox	05	Fisher	10		

Cable Box Brand Code Numbers

Archer	01, 05, 06, 44, 63, 91, 126	Quest	05, 06
Cabletenna	01, 44, 63, 91, 126	Radio Shack	44, 51, 59, 75
Cableview	04, 30, 42, 44, 52, 63, 124, 126	RCA	16, 17, 97, 109
Century	44, 51, 59, 75	Realistic	44, 51, 59, 75, 126
Citizen	04, 30, 42, 44, 52, 63, 124, 126	Recoton	44, 51, 59, 75, 126
Curtis	08, 09, 53, 61, 87	Regal	14, 15, 28, 41, 102, 103, 104, 108, 130
Diamond	01, 44, 63, 91, 126	Regency	28, 130
Drake	67	Rembran	01, 32, 39, 42, 44, 63, 126
Eagle	13, 20, 22, 26, 40, 58, 62, 107	Salora	68
Eastern	28, 130	Samsung	05, 06, 32, 40, 42
GC Brand	04, 30, 42, 44, 52, 63, 124, 126	Scientific Atlanta	08, 09, 53, 61, 87
Gemini	04, 124	Sheritech	27
General Electric	01, 57	Signal	26, 112
General Instruments	01, 02, 03, 04, 34, 55, 65, 67, 68, 83, 91, 115, 117, 118, 124	SL Marx	06, 32, 40, 42, 43, 44, 52, 63, 126
Hamlin	14, 15, 28, 41, 102, 103, 104, 108, 130	Spucer	16, 17, 97, 109
Hitachi	31	Standard Components	32, 39, 42, 44, 126
Jasco	04, 124	Stargate	04, 06, 30, 32, 40, 42, 44, 52, 63, 124, 126
Jerrold	01, 02, 03, 04, 34, 55, 65, 67, 68, 83, 91, 115, 117, 118, 124	Sylvania	19
Macom	31	Teknika	74
Magnavox	26, 112	Telecaption	77, 127
Matsushita	16, 17, 97, 109	Televue	06, 32, 40, 42
Movietime	32, 38, 39, 40, 42, 44, 126	Texscan	18, 19
NEC	32, 38, 40	Tocom	01, 33, 34, 42, 66, 91
NOVAVISION	08, 09, 53, 61	Toshiba	36
NSC	32, 38, 40	Uniden Satellite	65
Oak	11, 46, 129	Unika	01, 44, 63, 91, 126
Oak Sigma	11, 46, 129	Universal	42, 43, 44, 52, 63, 126
Panasonic	16, 17, 97, 109	Videoway	07, 23, 50, 129
Philips	07, 13, 20, 23, 24, 50, 128, 129	Vid Tech	64
Pioneer	05, 06	Vidter	64
Pulsar	04, 30, 42, 44, 52, 63, 124, 126	Viewstar	13, 20, 22, 26, 40, 58, 62, 107
		Zenith	07, 23, 50, 129

DSS Brand Code Number

Toshiba	92	Panasonic	96
Hitachi/ Hughes	93	RCA	97
Magnavox/ Uniden 1	94	Sony	98, 105
Magnavox/ Uniden 2	95		

Important Notes

- Please repeat Multi-Brand Control setup after replacing remote control batteries
- Due to changes in infra-red commands used by manufacturers, some brands have several codes. If your unit does not respond to the first code, please try the next one.
- Some TV, Cable Box and DSS Box brands require you to turn on the power manually.
- Not all functions listed may be controlled by this remote control.

Tape Operation

VHS Index Search System

Each time recording is made, an invisible index mark is placed on the tape. When timer recordings are made, program index and information are also included. These index marks can be used to access or scan recordings.

Direct Access (For normal and /or timer recordings)

Go directly to desired recording.

1

INDEX
ENTER

Display SELECT SEARCH MODE.
Press INDEX.*

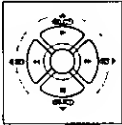
- If there are no timer recordings on the Program Index List, go to step 3.

2

SELECT SEARCH MODE

INDEX SEARCH
PROGRAM INDEX SEARCH

SELECT: ▲ ▼ KEY
SET : ► KEY
END : INDEX KEY

Display INDEX.


- 1) Press ▲▼ to select.
- 2) Press ► to display.
- This screen appears only if there are timer recordings.

3

INDEX

Select the recording number.

1

2

3

4

5

6

7

8

9

0

Press NUMBERED key.

- To calculate number, see below

4

INDEX 04

INDEX SEARCH 04

Start search.

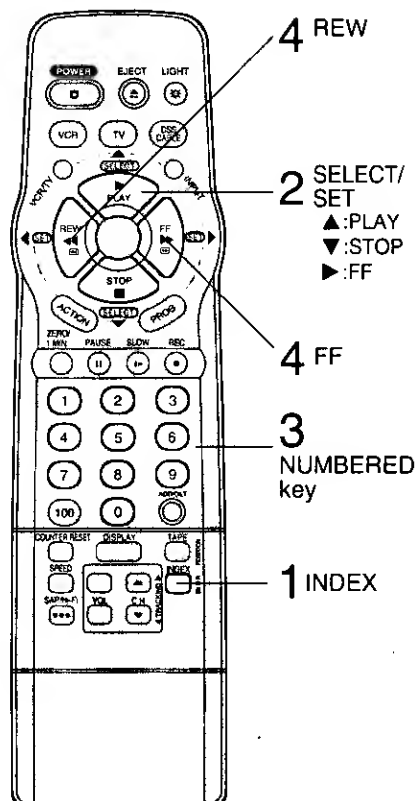
FF
(◀)

or

REW
(▶)

Press FF or REW.

- When search is finished, playback begins.

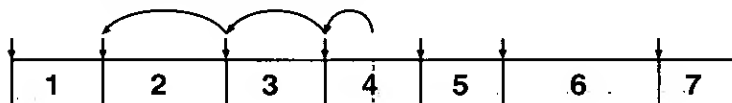


Model PV-9450 remote is shown here.

■ To calculate Index Number

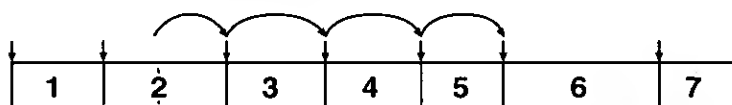
Example 1:

If you are watching recording 4 and you want to watch recording 2, enter 3 in step "3" and press REW.



Example 2:

If you are watching recording 2 and you want to watch recording 6, enter 4 in step "3" and press FF.



NOTE: ↓ indicates start points of each recording.

Notes

- Make each entry within 10 seconds, or the Index Search mode will be canceled.
- If Direct Access or Index Scan is started very close to an index mark, that index mark may not be counted in the search.

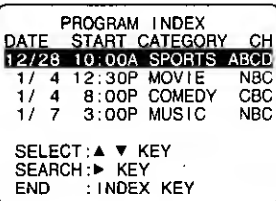
***Important:** If the remote control POWER, ACTION, PROG, CH▲/▼, INDEX, TAPE POSITION, or ADD/HLT button does not work when pressed, press the VCR button on the remote and try the button again.

Program Index Search (For timer recordings only)

Choose a timer recorded program from a Program Index List. When the tape is ejected or normal recording is started, all program index data are deleted.


1  **Display SELECT SEARCH MODE.**
Press INDEX.

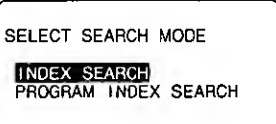
2  **Display PROGRAM INDEX.**
1) Press ▲▼ to select.
2) Press ► to display.


3  **Select the desired recorded program.**
1) Press ▲▼ to select.
2) Press ► to start the forward or rewind search.
• When search is finished, playback begins.

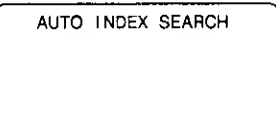
Index Scan (For normal and /or timer recordings)

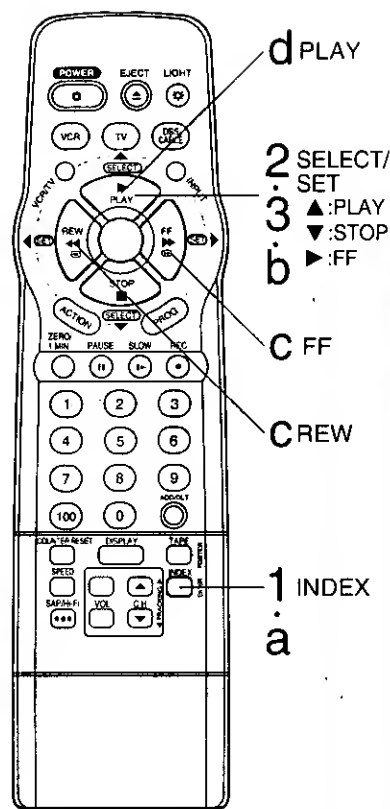
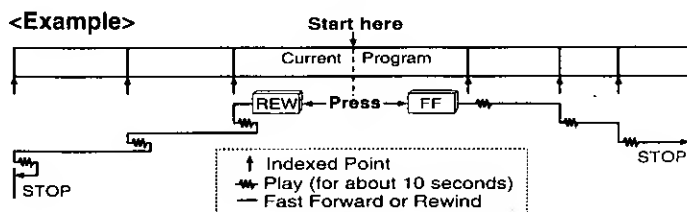
In Play mode, the first 10 seconds of each recording can be scanned (forward or reverse).

a  **Display SELECT SEARCH MODE.**
Press INDEX.
• If there are no timer recordings on the Program Index List, go to step c.

b  **Display INDEX.**
1) Press ▲▼ to select.
2) Press ► to display.

c  **Start scan.**
Press FF or REW.

d  **Cancel scan, start playback.**
Press PLAY.
• To stop, press STOP.



Model PV-9450 remote is shown here.

Tape Operation

Auto Operation Functions

Auto Playback

Tape insert --> Power turn on -->
--> Start playback if record tab
(see page 30) is removed.

Auto Rewind

Playback
Manual Record } --> Tape end -->
Fast Forward
--> Rewind (Auto)

Playback Auto Eject (Repeat Play is "OFF")

Playback --> Rewind -->
--> Tape eject (Without record tab)

Memory Rewind Off

Rewind --> Press POWER -->
--> Turn off after complete

Tape Operation (continued)

Repeat Play

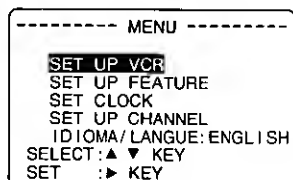
Set to see a recording over and over.

1

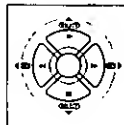


Display menu.
Press ACTION.*

2

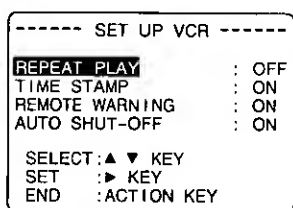


Display SET UP VCR.

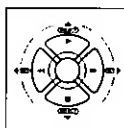


- 1) Press ▲▼ to select.
- 2) Press ► to display.

3



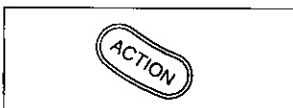
Set ON or OFF.



- 1) Press ▲▼ to select "REPEAT PLAY."
- 2) Press ► to set.

• Playback repeats when tape end is reached or unrecorded portion over 30 seconds is detected.

4

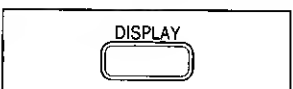


Return to normal screen.
Press ACTION twice.

Zero Search

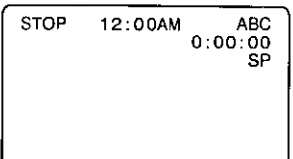
To quickly return to specific tape counter location.

a



Display Counter.
Press DISPLAY during playback.

b



Reset to "0:00:00."

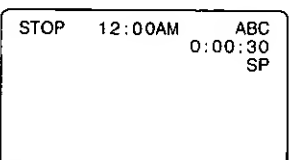


Press COUNTER RESET at the desired position.

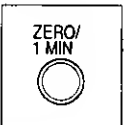
c

Continue playback, rewind, or fast forward.

d



Return to "0:00:00."

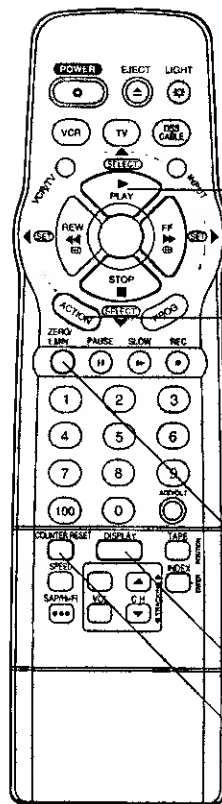


Press ZERO/ 1MIN.

- The VCR will go into FF or REW mode and stop at the last point the Counter was set to 0:00:00.

*Important:

If the remote control POWER, ACTION, PROG, CH ▲▼, INDEX, NUMBERED keys, INPUT, TAPE POSITION, or ADD/ DLT button does not work when pressed, press the VCR button on the remote and try the button again.



2 SELECT/SET

3 ▲:PLAY
▼:STOP
►:FF

1 ACTION

4

d ZERO/1MIN

a DISPLAY

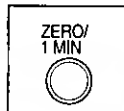
b COUNTER RESET

Model PV-9450 remote is shown here.

One Minute Skip

VCR fast forwards over 60 seconds of recorded tape.

A

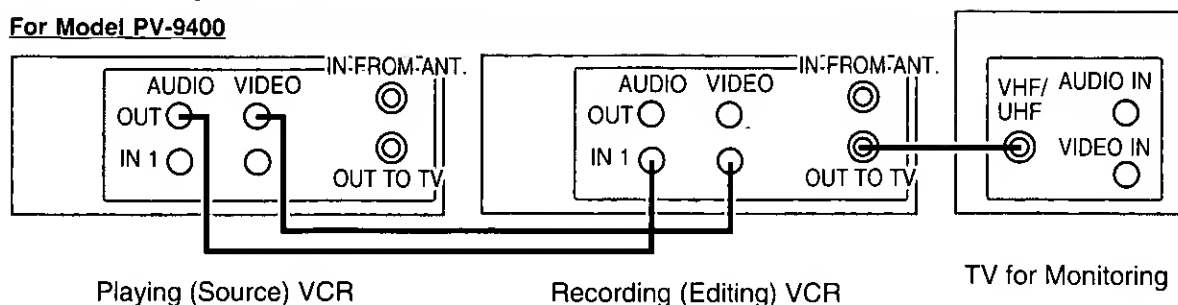


Press ZERO/ 1MIN in Play mode.

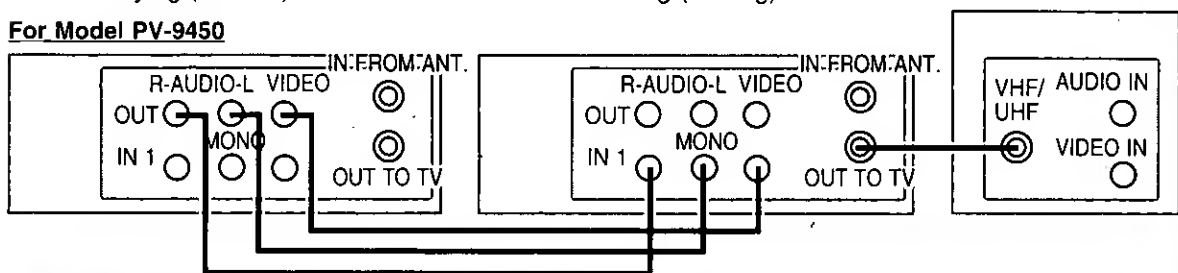
Copying Your Tapes (Dubbing)

Connections you'll need to make.

For Model PV-9400



For Model PV-9450

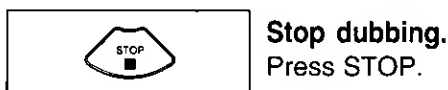
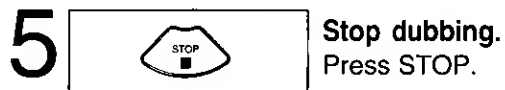
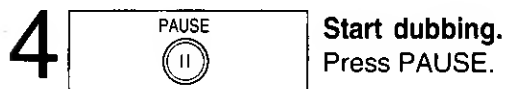
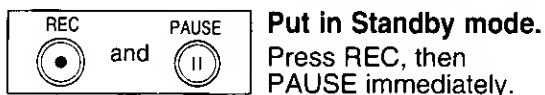
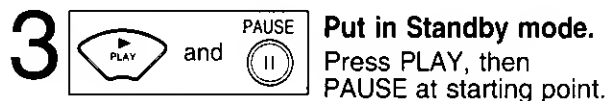
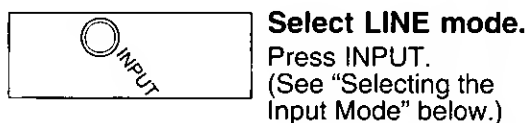


Playing (Source) VCR



2 _____

Recording (Editing) VCR

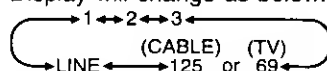


■ To Monitor Dubbing on Your TV

- 1 Turn your TV on and tune to the Recording VCR channel (CH3 or CH4).
- 2 Set the VCR/ TV Selector on the Recording VCR to "VCR."

■ Selecting the Input Mode

- Method 1: Press INPUT.
Channel Number <--> LINE
- Method 2: Press CH ▲/▼.
Display will change as below.



- "L" lights in Multi-Function Display (about 4 sec.) when LINE is selected.

Note Dubbing tapes protected with Copy Guard will have poor quality results.

Caution: Unauthorized exchanging and/or copying of copyrighted recordings may be copyright infringement.

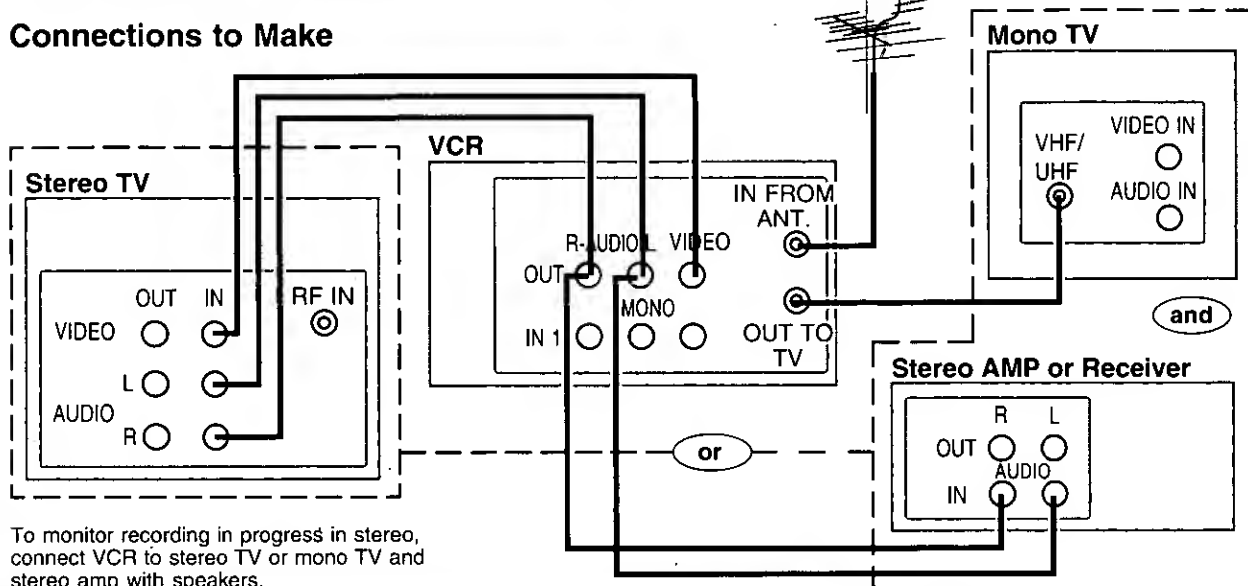
MTS Broadcast/VHS Hi-Fi Stereo System

For Model PV-9450 only

✓ Check list before you begin.

- ☐ VCR is connected to a stereo TV, or a mono TV and an external stereo amp or receiver with speakers.
- ☐ VCR and other components are plugged in and turned on.

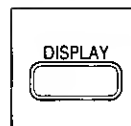
Connections to Make



To monitor recording in progress in stereo, connect VCR to stereo TV or mono TV and stereo amp with speakers.

Receivable Broadcast Types

The following are possible audio broadcast types and on-screen displays. The signal being received is indicated with an "Ⓢ" mark while the selected audio mode is indicated with an arrow.



Display the broadcast signal being received. Press DISPLAY.*

MTS Stereo and SAP broadcast

Multi-channel Television Sound Stereo (main language) and Secondary Audio Program (sub language) broadcasts are both being received simultaneously. Select STEREO or SAP audio mode.

MTS Stereo broadcast

Multi-channel Television Sound Stereo broadcast. Select STEREO audio mode.

- If stereo broadcast is weak and display flickers, select MONO audio mode for possibly better results.

SAP broadcast

Secondary Audio Program (sub language) broadcast. Select SAP audio mode for the sub language.

MONO broadcast

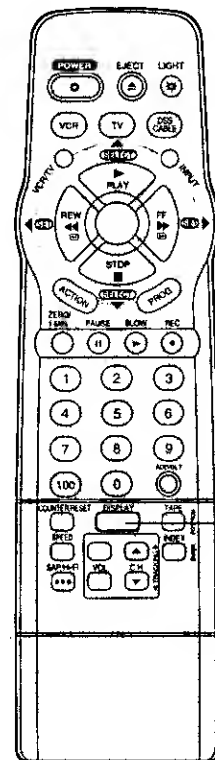
Normal monaural sound broadcast.

STOP	12:00AM	ABC
Ⓢ STEREO ◀	0:00:00	SP
Ⓢ SAP		
MONO		

STOP	12:00AM	ABC
Ⓢ STEREO ◀	0:00:00	SP
SAP		
MONO		

STOP	12:00AM	ABC
STEREO	0:00:00	SP
Ⓢ SAP ◀		
MONO		

STOP	12:00AM	ABC
STEREO	0:00:00	SP
SAP		
MONO ◀		



DISPLAY

Equipped with **dbx**®-TV Noise Reduction for true MTS reproduction. **dbx**®-TV Noise Reduction is required for good stereo separation and audio fidelity. **dbx**® is a registered trademark, and is licensed by **dbx**® Technology Licensing.


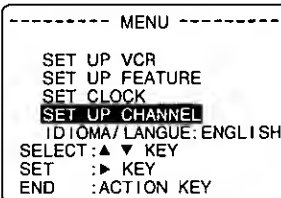
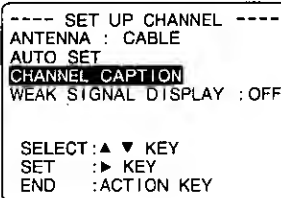
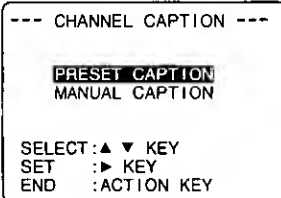
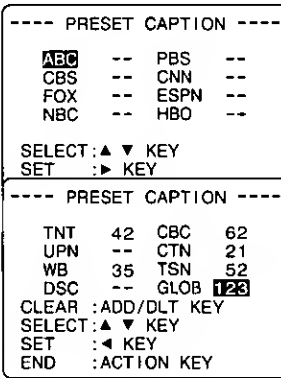
Special VCR Features

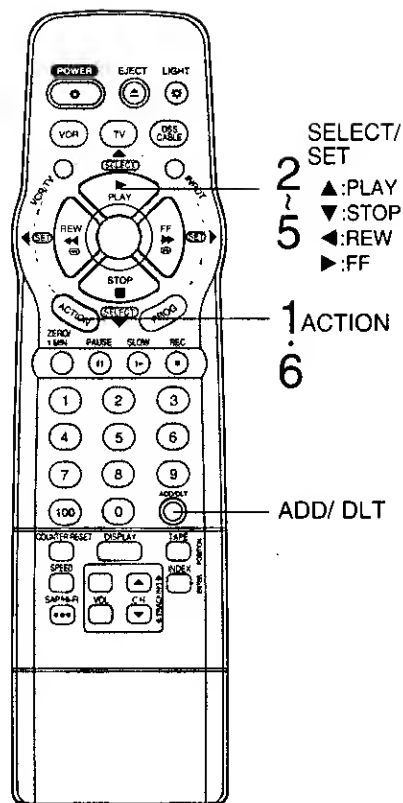
Channel Caption

When set, station name, e.g. ABC, CBS, and channel number appear on-screen.
Set up to 24 preset captions, and/or 10 manually created captions.


☐ You need a list of stations and the channel numbers you receive them on.

Preset Caption

- 1**  **Display menu.**
Press ACTION.*
- 2**  **Display SET UP CHANNEL.**
1) Press ▲▼ to select.
2) Press ► to display.
- 3**  **Display CHANNEL CAPTION.**
1) Press ▲▼ to select.
2) Press ► to display.
- 4**  **Display PRESET CAPTION.**
1) Press ▲▼ to select.
2) Press ► to display.
• To create your own captions, go to "Manual Caption" on page 23.
- 5**  **Assign preset captions.**
1) Press ▲▼ to highlight caption.
2) Press ► to move cursor to the right.
3) Press ▲▼ to select CH number.
4) Press ◀ to set.
• Repeat step 5 until the list is complete.
To make corrections,
Press ▲▼ and ► to select the channel number, then press ▲▼ to change, or ADD/DLT to delete the number.



Model PV-9450 remote is shown here.

- 6**  **End setup.**
Press ACTION four times.

Manual Caption

1 Do "Preset Caption" steps 1~3 on page 22.

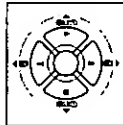
2 --- CHANNEL CAPTION ---

PRESET CAPTION
MANUAL CAPTION

SELECT: ▲ ▼ KEY
SET : ► KEY
END : ACTION KEY

Display MANUAL CAPTION.

1) Press ▲▼ to select.
2) Press ► to display.



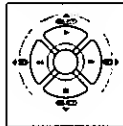
3 --- MANUAL CAPTION ---

CH NUMBER CAPTION
02 ---

SELECT: ▲ ▼ KEY
SET : ► KEY
END : ACTION KEY

Select channel number.

1) Press ▲▼ to select CH NUMBER.
2) Press ► to move cursor to the right.



- Channels already set and channels deleted from Channel Memory are not displayed.
- You can set a total of ten channel captions.

4 --- MANUAL CAPTION ---

CH NUMBER CAPTION
02 A---

CLEAR : ADD/HLT KEY
SELECT: ▲ ▼ KEY
SET : ► KEY

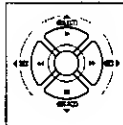
Enter CAPTION.

1) Press ▲▼ to select.
2) Press ► to enter.

• Characters change in following order.

A→B→C→...→Z→BLANK→...→&→
9→...→2→1→0→/→!→

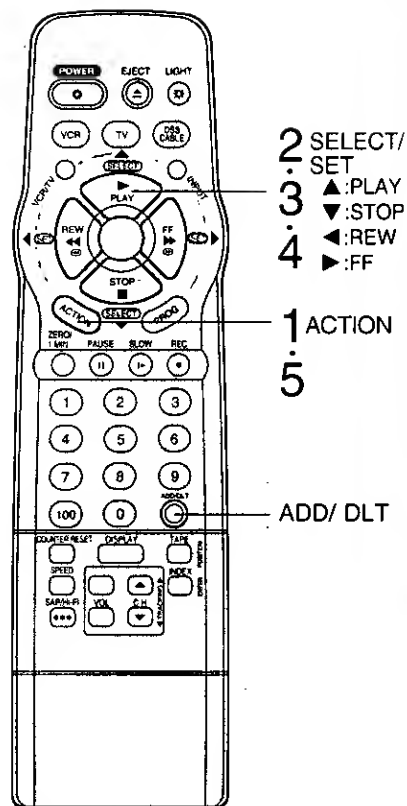
3) Press ◀ to set.



To make corrections,
Press ▲▼ and ► to select the channel number, then press ▲▼ to change, or ADD/HLT to delete the number.

5 

End input.
Press ACTION four times.



Model PV-9450 remote is shown here.

Special VCR Features

Time Stamp Feature

The VCR writes program data (see example below) about the first 10 seconds of every recording. The information is then displayed the first 10 seconds of playback. To change the data, see "Changing Time Stamp Data" on page 25.

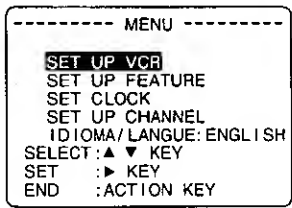
1



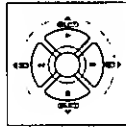
Display menu.

Press ACTION.*

2

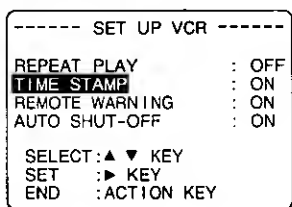


Display SET UP VCR.

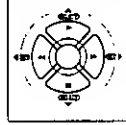


- 1) Press ▲▼ to select.
- 2) Press ► to display.

3



Set ON or OFF.



- 1) Press ▲▼ to select.
- 2) Press ► to set.

• When "OFF" is selected, the program data is written on the tape, but will not be displayed.

4

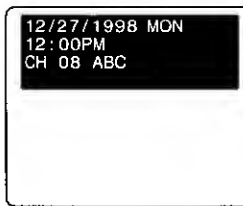


Return to normal screen.

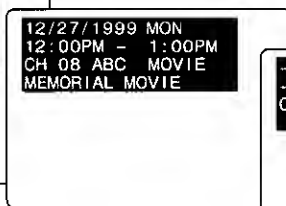
Press ACTION twice.

<Time Stamp Example>

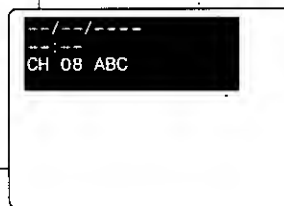
One Touch Recording



Timer Recording

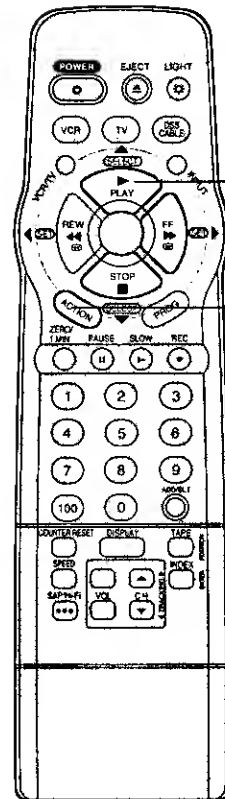


When Clock is not set...



Check list before you begin.

- ☐ Clock is set to correct time.
- ☐ Record tab in place. (See page 30.)



- 2 SELECT/SET
- 3 ▲:PLAY
▼:STOP
►:FF
- 1 ACTION
- 4

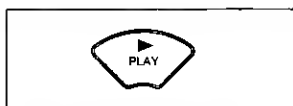
Model PV-9450 remote is shown here.

***Important:** If the remote control POWER, ACTION, PROG, CH▲/▼, INDEX, NUMBERED keys, INPUT, TAPE POSITION, or ADD/HLT button does not work when pressed, press the VCR button on the remote and try the button again.

Changing Time Stamp Data

You may change the Date, Time, Channel, Category, and Notes.

1



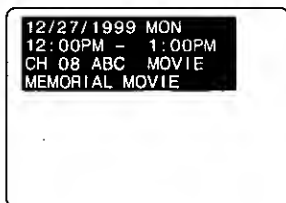
Display Time Stamp Data.

- 1) Insert cassette with record tab.
- 2) Press PLAY.



PLAY

2

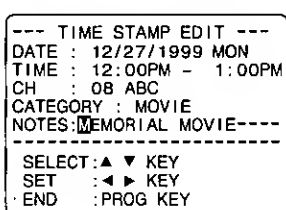


Display TIME STAMP EDIT.

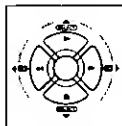


Press PROG while the data is displayed in Playback mode.

3

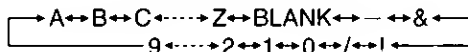


Change Time Stamp Data.



- 1) Press ▲▼ to select.
- 2) Press ► to enter and continue.

- Characters in NOTES will change in the following order.

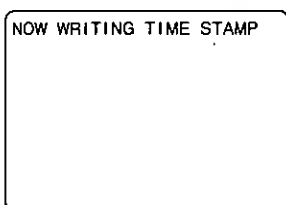


- 3) Repeat 1) and 2) as needed.

To make corrections,

Press ◀▶ to move to the incorrect entry, then press ▲▼ to make the correction.

4

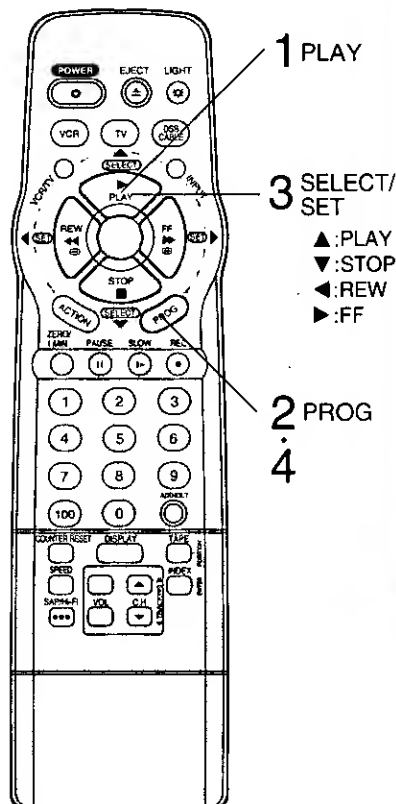


Write the new data.



Press PROG.

- When data is written, VCR returns to Stop mode.



Model PV-9450 remote is shown here.

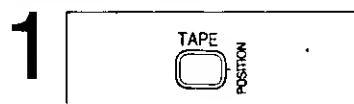
Special VCR Features

Special VCR Features

Tape Position Display Feature

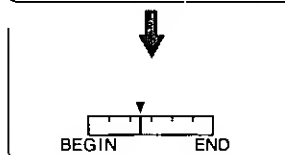
To find out the present tape position.

Tape position cannot be found for C-Cassette type and tape of less than 60 minutes.

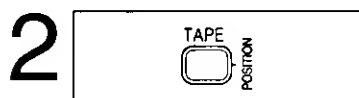


Detect Tape Position.
Press TAPE POSITION.*

DETECTING TAPE POSITION



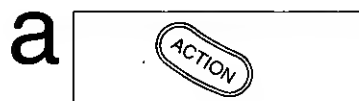
- Detecting tape position is only when first cassette in.
- It takes several seconds for correct indication to appear.
- Indication is standard.



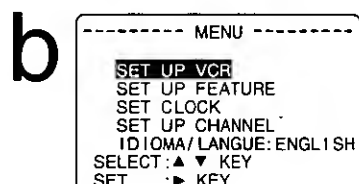
Return to normal screen.
Press TAPE POSITION.

Remote Warning ON/OFF Feature

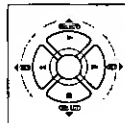
If Multi-brand feature is used (page 14), and this feature is set to on, a warning appears whenever an invalid key is pressed in TV, DSS, or Cable mode.



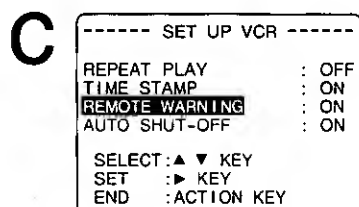
Display menu.
Press ACTION.



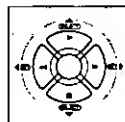
Display SET UP VCR.



- 1) Press ▲▼ to select.
- 2) Press ► to display.

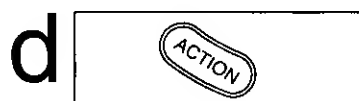


Set ON or OFF.



- 1) Press ▲▼ to select.
- 2) Press ► to set.

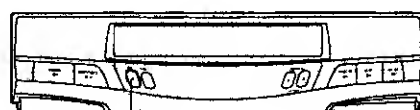
• "OFF" --> remote warning will not appear even if invalid key is pressed.



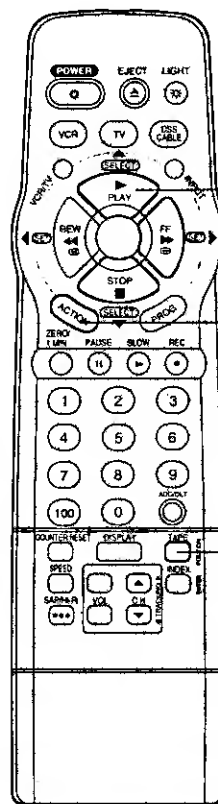
Return to normal screen.
Press ACTION twice.

☒ **Check list before you begin.**

- ☐ All connections are made. (See pages 4-5.)
- ☐ VCR is plugged in.
- ☐ TV is turned on and set to the VCR channel (CH 3 or 4).



REC



SELECT/SET

▲:PLAY
▼:STOP
►:FF

a ACTION

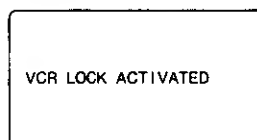
d

1. TAPE POSITION
2.

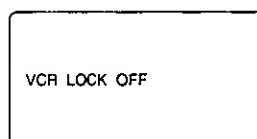
Model PV-9450 remote is shown here.

VCR Lock Feature

All operations are prohibited except timer recording and tape eject. Useful for families with small children.



To turn ON:
In Stop mode, hold down REC on the VCR without a cassette inserted for 7 seconds.



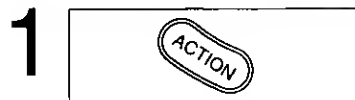
To turn OFF:
Repeat above.

- VCR Lock is canceled automatically after 24 hours if clock is set.

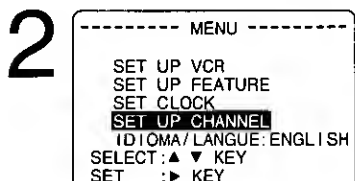
***Important:** If the remote control **POWER**, **ACTION**, **CH▲/▼**, **INDEX**, **NUMBER** keys, **INPUT**, **TAPE POSITION**, or **ADD/HLT** button does not work when pressed, press the **VCR** button on the remote and try the button again.

Weak Signal Display ON/OFF Feature

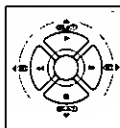
When "on" is selected, picture is displayed even when broadcast signal is weak or nonexistent.



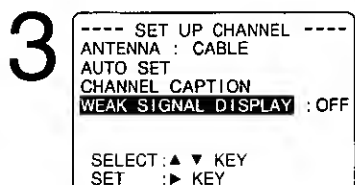
Display menu.
Press ACTION.



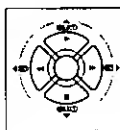
Display SET UP CHANNEL.



1) Press ▲▼ to select.
2) Press ► to display.

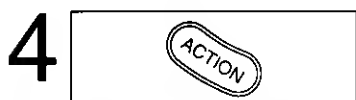


Set ON or OFF.



1) Press ▲▼ to select.
2) Press ► to set.

- ON --> Picture is displayed regardless of signal condition, and may not always be clearly visible.
- OFF --> Screen turns solid blue when signal is absent or weak.
- If VCR is connected to equipment which has blue back feature, selecting ON will have no effect on the other equipment.

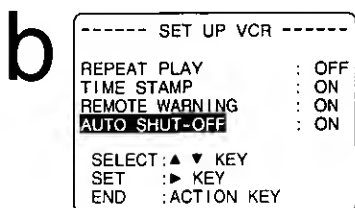


Return to normal screen.
Press ACTION twice.

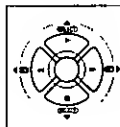
Auto Shut-Off Feature

When "ON" is selected, VCR shuts itself off when playback of a blank portion of tape continues or no signal is detected for over 5 minutes.

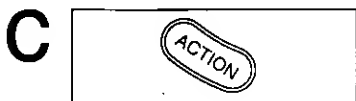
a Repeat step "a" and "b" on page 26 to display SET UP VCR.



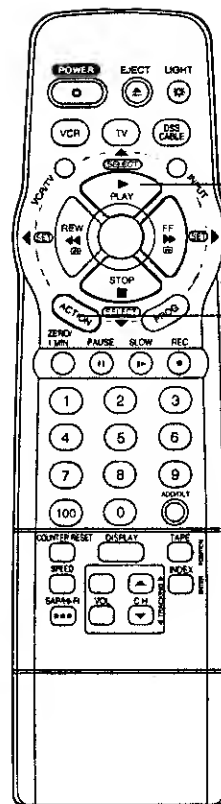
Set ON or OFF.



1) Press ▲▼ to select.
2) Press ► to set.



Return to normal screen.
Press ACTION twice.



2 SELECT/SET
3 ▲:PLAY
▼:STOP
b ►:FF
1 ACTION
4 .
c

Model PV-9450 remote is shown here.

Reset Language, Channels, Clock

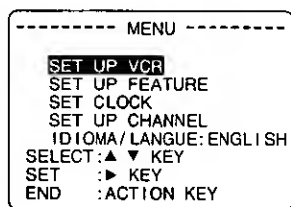
1



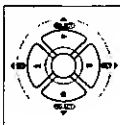
Display menu.

Press ACTION.*

2



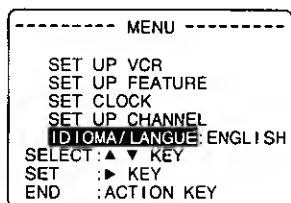
Select menu item.



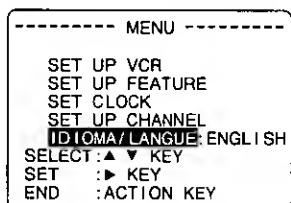
- 1) Press ▲▼ to select.
- 2) Press ► to set.

3 **Language**

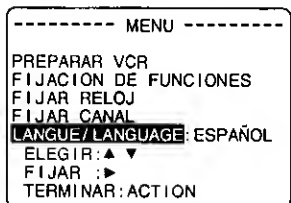
- 1) Press ▲▼ to highlight language item.



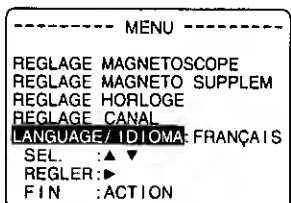
- 2) Press ► repeatedly.



For English



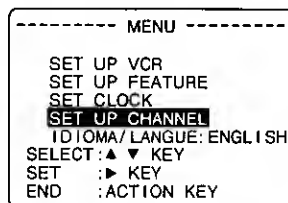
For Spanish



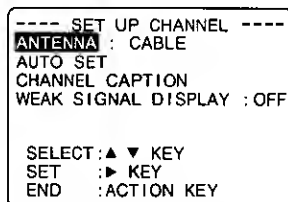
For French

Channels

- 1) Press ▲▼ to select SET UP CHANNEL.



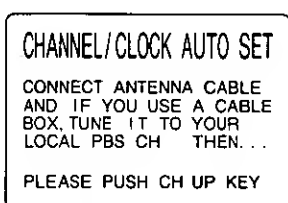
- 2) Press ►.



- 3) Press ▲▼ to select "ANTENNA," then press ► to set your antenna system (TV or CABLE).

- 4) Press ▲▼ to select "AUTO SET," then press ►.

- If you use a cable box, set it to the PBS channel in your time zone.

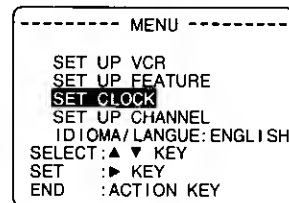


- 5) Press CH ▲.

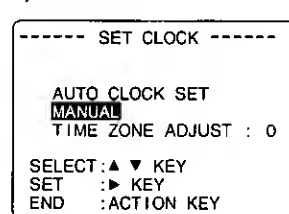
- Clock Auto Set will be performed when channels are replaced in memory.

Clock

- 1) Press ▲▼ to select SET CLOCK.



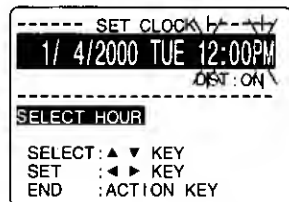
- 2) Press ►.



("TIME ZONE ADJUST" appears only when clock is set automatically.)

- 3) Press ▲▼ to select MANUAL and press ►.

- For Auto Clock Set, select "AUTO CLOCK SET," then press CH ▲.



- 4) Press ▲▼ and ◀▶ to select and set the date, time, and DST (Daylight Saving Time).

- 5) Press ACTION twice to start the clock and exit this mode.

Important: If the remote control POWER, ACTION, PROG, CH ▲/▼, INDEX, CHANNEL keys, INPUT, TAPE POSITION, or ADD/HLT button does not work when pressed, press the VCR button on the remote and try the button again.

Add or Delete a Channel

To add channel:
Select channel with NUMBERED keys and press ADD/HLT.

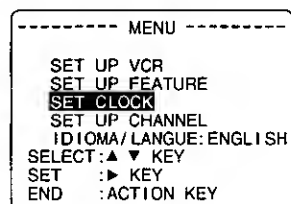
To delete channel:
Select channel with CH ▲/▼ or NUMBERED keys and press ADD/HLT.

CHANNEL 08 ADDED

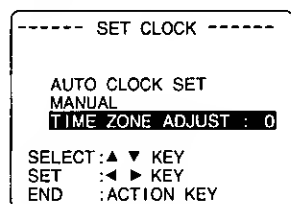
CHANNEL 08 DELETED

Time Zone Adjust

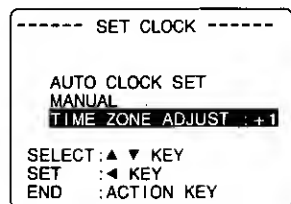
- 1) Press ▲/▼ to select SET CLOCK.



- 2) Press ▶.



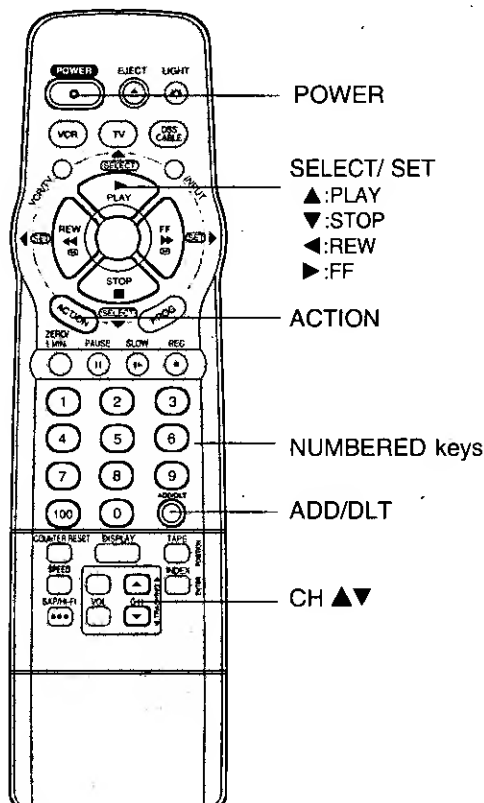
- 3) Press ▲/▼ to select TIME ZONE ADJUST and press ◀ or ▶ to subtract or add hour(s) as necessary.



- 4) Press ACTION twice.

- 5) Press POWER off to perform AUTO CLOCK SET.

- TIME ZONE ADJUST returns to "0" if clock is set manually.

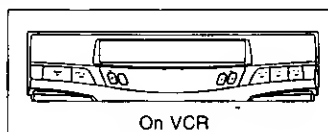
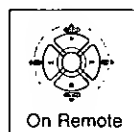


Model PV-9450 remote is shown here.

Using ▲▼◀▶ keys

You can also operate the menu screen using VCR buttons.

If you use VCR buttons, press CH ▲ and CH ▼ together to display the menu screen.



▲:PLAY
▼:STOP
◀:REW
▶:FF

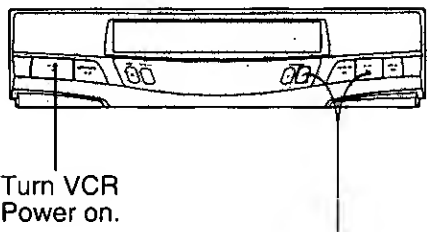
When menu screens are displayed, PLAY, STOP, REWIND, and FF buttons function as ▲▼◀▶ only.

VCR & Cassette Information

Reset all VCR Memory Functions

Use when moving VCR to new location, or if a mistake was made in the One Time VCR Setup section.

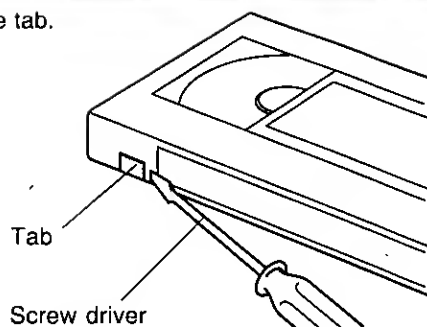
- Make sure a tape is not inserted in the VCR.



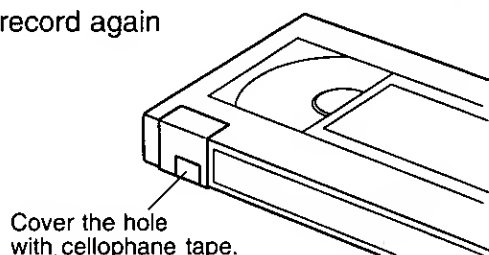
- 1 Turn VCR Power on.
- 2 Press and hold both **PLAY** and **CHANNEL ▲** on the VCR for more than 5 seconds.
 - The power will shut off.
- 3 Do "One Time VCR Setup" steps on page 6.

Prevent Accidental Tape Erasure

Break off the tab.



To record again

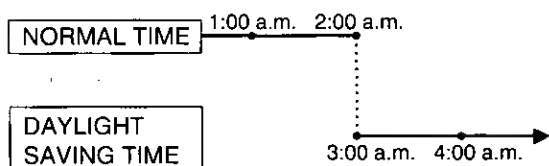


DST (Daylight Saving Time)

VCR auto adjusts clock for DST. (Page 7.)

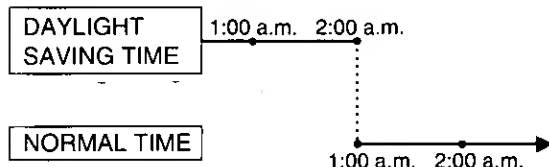
Spring (First Sunday in April)

DST:ON --> sets clock ahead one hour.



Autumn (Last Sunday in October)

DST:ON --> Turns clock back one hour.



- If your area does not observe Daylight Saving Time, select DST:OFF.
- Keep these time changes in mind when programming the VCR for timer recordings.

Record/Playback Time

Only use tapes with the **VHS** mark in this unit.

Tape Speed Setting	Type of Video Cassette		
	T60	T120	T160
SP (Standard Play)	1 Hour	2 Hours	2 Hours 40 Minutes
LP (Long Play)	2 Hours	4 Hours	5 Hours 20 Minutes
SLP (Super Long Play)	3 Hours	6 Hours	8 Hours

Head Cleaning

Playing older or damaged tapes may eventually cause video heads to become clogged.

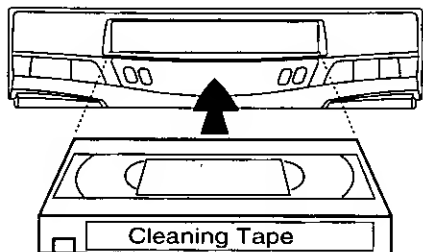
Video Head Clog Sensor

During playback this screen appears if clogging is detected. To remove screen, press PLAY on the remote or VCR.

VIDEO HEADS MAY
NEED CLEANING
PLEASE INSERT HEAD
CLEANING CASSETTE
OR REFER TO MANUAL

END:PLAY KEY

- Use "dry" type head cleaning cassette only. (Part No. NV-TCL30PT is recommended.)



- Follow cleaning tape instructions carefully. Excessive use of tape can shorten head life.
- If head clog symptoms persist, contact your nearest Factory Service Center or authorized Service Center. (See page 34.)

Specifications

Power Source:	120V AC, 60 Hz
Power Consumption:	Power On Approx. 18 watts (PV-9400) Approx. 23 watts (PV-9450) Power Off Approx. 3.3 watts
Video Signal:	EIA Standard NTSC color
Video Recording System:	4 rotary heads helical scanning system
Audio Track:	1 track (Normal) 2 channel (Hi-Fi Audio Sound) (PV-9450)
Tuner:	
Broadcast Channels:	VHF 2~13, UHF 14~69
CABLE Channels:	Midband A through I (14~22) Superband J through W (23~36) Hyperband AA~EEE (37~64) Lowband A-5~A-1 (95~99) Special CABLE channel 5A (01) Ultraband 65~94, 100~125
Operating Temperature:	41°F~104°F (5°C~40°C)
Operating Humidity:	10%~75%
Weight:	7.7 lbs. (3.5 kg)
Dimensions:	14-15/16" (W) x 3-2/3" (H) x 12-3/16" (D) 380 (W) x 93 (H) x 310 (D) mm

Note: Designs and specifications are subject to change without notice.

Cleaning the VCR

Use a soft cloth or dusting attachment of your vacuum cleaner to dust your VCR. Remove dust from the ventilation holes on the back sides and bottom of the cabinet.

Plastic surfaces are easily scratched and can be marred by alcohol and various solvents. Avoid excessive use of oil-based furniture polishes since the materials used in the cabinet will accumulate more dust. We recommend using a nonabrasive, antistatic cleaner and polisher.

Features for a Quality Picture

Digital Auto Picture

Automatically controls the video output signal for less noise depending on the tape condition.

Digital Auto Tracking

Continuously analyzes the signal and adjusts for optimum picture quality.

Manual Tracking Control (to reduce picture noise)

Use during Playback and Slow Motion mode to reduce picture noise. To return to Auto Tracking, press POWER off, then on again.

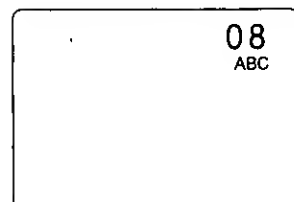


V-Lock Control (to reduce picture jitter)

In Still mode, CH (TRACKING) ▲/▼ operate as a V-Lock control.

On-Screen Displays (OSD)

Function & Channel Display



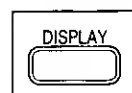
When a function button is pressed, e.g. PLAY, or you change channels, a 4 second display appears first in large and then small characters. (Some Station names may also appear.)

Blank Tape/ No Video Signal Indication

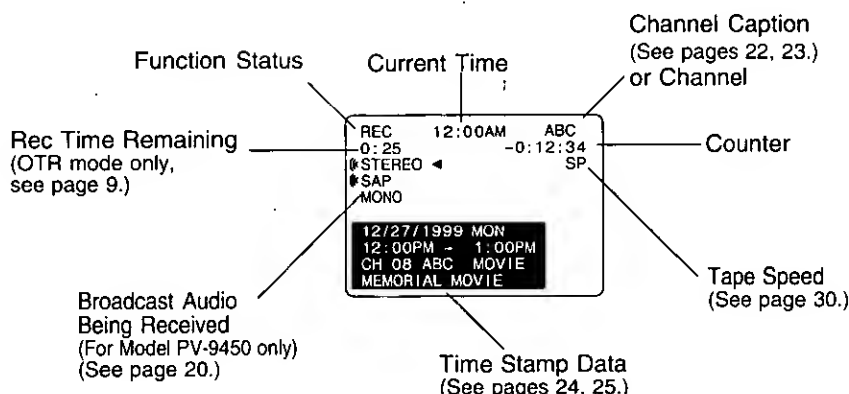
Whenever a blank section of a tape comes up in Play mode, or when the selected channel has no broadcast signal with the Weak Signal Display Feature (page 27) set to OFF, the TV screen will turn solid blue.

VCR Status & Clock Display

To display or remove the overlay.



Press DISPLAY.



Warning and Instruction Displays

These displays will alert you of a missed operation or provide further instructions.

OSD	Caution	Pg	OSD	Caution	Pg
NO CH FOUND PLEASE CHECK ANTENNA CABLE CONNECTION THEN PUSH VCR CH UP KEY AGAIN	If no active channels are found for CHANNEL MEMORY...	6	TO CANCEL TIMER REC PUSH POWER THEN STOP KEY	If you press POWER or STOP during a Timer Recording... (visible in VCR mode only)	13
PLEASE SET CLOCK BEFORE PROGRAMMING	If you attempt to set or review a Timer Recording and the Clock is not set...	6	VIDEO HEADS MAY NEED CLEANING PLEASE INSERT HEAD CLEANING CASSETTE OR REFER TO MANUAL END: PLAY KEY	If head cleaning becomes necessary while playing back a tape...	31
TURN VCR OFF FOR TIMER RECORDING	After a Timer Program has been set...	13	VCR LOCK ACTIVATED	If you press a function button other than STOP/EJECT or POWER while the VCR is in VCR Lock mode...	26
CHECK CASSETTE RECORD TAB	If you press REC on the remote control or VCR, and a cassette is inserted with no record tab...	30	REMOTE CONTROL IS SET TO CABLE/DSS MODE USE VCR : VCR KEY USE TV : TV KEY	If you press POWER, ACTION, or PROG on the remote while in CABLE/DSS mode...	14 15
NO CASSETTE PLEASE INSERT A CASSETTE	If you press PLAY, FF, REW, or REC on the remote control or VCR without a cassette inserted...	8 9	REMOTE CONTROL IS SET TO TV MODE USE VCR : VCR KEY USE CABLE/DSS : CABLE/DSS	If you press POWER, ACTION, or PROG on the remote while in TV mode...	14 15

Before Requesting Service

Check the following points once again if you are having trouble with your VCR.

Power	Correction
No power...	<ul style="list-style-type: none">• Completely insert Power Plug into an AC outlet.• Set POWER button to ON.• Make sure power source is active.
Recording & Playback	Correction
TV program cannot be recorded...	<ul style="list-style-type: none">• Check connections between VCR, external antenna, and TV.• Check hook up selection. (P.4~5)• Make sure your antenna system (CABLE or TV) is correctly set. (Channel [P.28])• Make sure cassette record tab is intact. (P.30)
Timer recording cannot be performed...	<ul style="list-style-type: none">• Check clock is set to current time and date.• Make sure Cable/DSS box (if used) is left on and tuned to channel to be recorded.• Set recording start/stop times correctly. (P.12)• Make sure POWER button is set to OFF. (P.13)• Timer recording may not be performed or continued if a power interruption of more than 1 minute occurs before or during, a Timer Recording, even after power is restored.
There is no playback picture, or the playback picture is noisy or contains streaks...	<ul style="list-style-type: none">• Select channel 3 or 4 on TV to match Channel 3/4 switch on rear panel of VCR (P.4) or select LINE.• Set VCR/TV selector to "VCR."• Adjust TRACKING control in either direction. (P.31)• Try Head Cleaning. (P.31)
Special effects playback, picture may contain some vertical jitter when using a TV with an Automatic Vertical Hold Control...	<ul style="list-style-type: none">• Set TV's Vertical Hold Control to "MANUAL" then adjust.
VCR cannot be controlled...	<ul style="list-style-type: none">• Make sure VCR LOCK is set to off. (P.26)• Make sure remote is in proper mode.• Make sure unit is not in a Timer Record operation.
Remote Control	Correction
VCR cannot be remote controlled...	<ul style="list-style-type: none">• Aim Remote Control directly at remote sensor on VCR. (P.38)• Avoid any object blocking signal path.• Inspect remote batteries. (P.4)• Make sure VCR LOCK is set to off. (P.26)• Exposing VCR remote sensor to direct fluorescent or outdoor light may cause signal interference.
ACTION and PROG buttons cannot be used...	<ul style="list-style-type: none">• Press VCR button for VCR mode. (P.14)• Check Batteries.
Miscellaneous	Correction
Programs cannot be viewed on TV...	<ul style="list-style-type: none">• Set VCR/TV selector to "TV." (P.9)• Make sure proper signal source is selected.
Video cassette cannot be inserted...	<ul style="list-style-type: none">• Insert the cassette with window side up; record tab facing you.• Insure no other tape is inside unit.
Video cassette cannot be removed...	<ul style="list-style-type: none">• Completely insert Power Plug into AC outlet.
Video cassette ejects when a recording is started or the power is turned off for timer recording...	<ul style="list-style-type: none">• Make sure cassette rec tab is intact. (P.30)
In Stop mode, the motor (CYLINDER) continues to rotate...	<ul style="list-style-type: none">• To enable Quick play mechanism, the cylinder will rotate for about 5 minutes. This reduces response time from Stop to Play mode and from Play to Rewind Search mode.
The top of the playback picture waves back and forth excessively...	<ul style="list-style-type: none">• Because VCR playback signal is not as stable as off-the-air TV signal, top of TV screen may be bent or unstable during playback. Slowly turn TV horizontal Hold control to correct. If your TV has no horizontal Hold control or adjusting control is ineffective, contact your nearest TV service center.

If you cannot resolve the problem, please call the Customer Satisfaction Center for product assistance at 201-348-9090.

To locate an authorized servicer, please call toll free 1-800-211-PANA (7262).

Service Center List

For Product Information, Operating Assistance, Literature Request, Dealer Locations, and all Customer Service inquiries please contact:

1-800-211-PANA (7262), Monday-Friday 9am-9pm Saturday-Sunday 9am-7pm, EST.

Web Site: <http://www.panasonic.com>

You can purchase parts, accessories or locate your nearest servicenter by visiting our Web Site.

Accessory Purchases:

Customer Orders Only 800-332-5368 (Customer Orders Only)

Panasonic Services Company 20421 84th Avenue South, Kent, WA 98032

(6 am to 5 pm Monday - Friday; 6 am to 10:30 am Saturday; PST)

(Visa, MasterCard, Discover Card, American Express, Check)

Factory Servicenters Locations

CALIFORNIA

6550 Katella Avenue
Cypress, CA 90630

800 Dubuque Avenue.
S. San Francisco,
CA 94080

20201 Sherman Way
Suite 102
Canoga Park, CA 91306

3878 Ruffin Road
Suite A
San Diego, CA 92123

COLORADO

1640 South Abilene Street
Suite D
Aurora, CO 80012

FLORIDA

3700 North 29th Avenue
Suite 102
Hollywood, FL 33020

GEORGIA

8655 Roswell Road
Suite 100
Atlanta, GA 30350

ILLINOIS

9060 Golf Road
Niles, IL 60714

1703 North Randall
Road
Elgin, IL 60123
(Pick-up / Drop-off only)

MARYLAND

62 Mountain Road
Glen Burnie, MD 21061

MASSACHUSETTS

60 Glacier Drive
Suite G
Westwood, MA 02090

MICHIGAN

37048 Van Dyke Avenue
Sterling Heights, MI 48312

MINNESOTA

7850-12th Avenue South
Airport Business Center
Bloomington, MN 55425

OHIO

2236 Waycross Road
Civic Center Plaza
Forest Park, OH 45240

PENNSYLVANIA

2221 Cabot Blvd. West
Suite B
Langhorne, PA 19047

Chartiers Valley
Shopping Center
1025 Washington Pike
Bridgeville, PA 15017

TENNESSEE

3800 Ezell Road
Suite 806
Nashville, TN 37203

TEXAS

7482 Harwin Drive
Houston, TX 77036

13615 Welch Road
Suite 101
Farmers Branch,
TX 75244

WASHINGTON

20425-84th Avenue South
Kent, WA 98032

HAWAII

99-859 Iwaiwa Street
Aiea, Hawaii 96701
Phone (808)488-1996
Fax (808)486-4369

Service in Puerto Rico

Matsushita Electric of Puerto Rico, Inc. Panasonic Sales Company/ Factory Servicenter:

Ave. 65 de Infanteria, Km. 9.5, San Gabriel Industrial Park, Carolina, Puerto Rico 00985

Phone (787)750-4300 Fax (787)768-2910

As of April '98

Warranty

Panasonic Consumer Electronics Company,
Division of Matsushita Electric Corporation
of America,
One Panasonic Way
Secaucus, New Jersey 07094

Panasonic Sales Company,
Division of Matsushita Electric of Puerto Rico, Inc.
AVE. 65 de Infantería, Km. 9.5
San Gabriel Industrial Park
Carolina, Puerto Rico 00985

PANASONIC Video Products Limited Warranty

Panasonic Consumer Electronics Company or Panasonic Sales Company (collectively referred to as "the Warrantor") will repair this product with new or refurbished parts, free of charge, in the USA or Puerto Rico, in the event of a defect in materials or workmanship as follows (all time periods commence from the date of the original purchase):

PRODUCT	PARTS	LABOR
CAMCORDER	ONE (1) YEAR, EXCEPT CCD IMAGE SENSOR CCD IMAGE SENSOR - SIX (6) MONTHS	NINETY (90) DAYS NINETY (90) DAYS
VCR	ONE (1) YEAR	NINETY (90) DAYS
A/V MIXER	ONE (1) YEAR	NINETY (90) DAYS
MONITOR-VCR	ONE (1) YEAR, EXCEPT CRT CRT - TWO (2) YEARS	NINETY (90) DAYS CRT - NINETY (90) DAYS CUSTOMER PAYS ALL LABOR CHARGES AFTER 90 DAYS

Monitor-VCR In-home or carry-in Service: 22" (diagonal) CRT / LCD and Larger
Monitor-VCR Carry-in Service: 21" (diagonal) CRT / LCD and smaller

Batteries (if included) - New rechargeable batteries in exchange for defective rechargeable batteries for ten (10) days.
Non-rechargeable batteries are not warranted.

Tape (if included) - New video cassette tape in exchange for a defective video cassette tape for five (5) days.

In-home, carry-in or mail-in service, as applicable, in the USA can be obtained during the warranty period by contacting a Panasonic Services Company (PASC) Factory Servicenter listed in the Service Directory. Or call toll free 1-800-211-PANA (7262), to locate an authorized PASC Servicenter. Carry-in or mail-in service in Puerto Rico can be obtained during the warranty period by calling the Panasonic Sales Company telephone number listed in the Servicenter Directory.

This warranty is extended only to the original purchaser. A purchase receipt or other proof of the date of the original purchase is required before warranty service is rendered.

This warranty only covers failures due to defects in materials and workmanship which occur during normal use and does not cover normal maintenance, including, but not limited to, video and audio head cleaning. The warranty does not cover damage which occurs in shipment, or failures which are caused by products not supplied by the warrantor, or failures which result from accident, misuse, abuse, neglect, mishandling, misapplication, alteration, modification, faulty installation, set-up adjustments, improper antenna, inadequate signal pickup, maladjustment of consumer controls, improper operation, power line surge, improper voltage supply, lightning damage, commercial use such as hotel, office, restaurant, or other business or rental use of the product, or service by anyone other than a PASC Factory Servicenter or a PASC authorized Servicenter, or damage that is attributable to acts of God.

LIMITS AND EXCLUSIONS

There are no express warranties except as listed above.

THE WARRANTOR SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES (INCLUDING, WITHOUT LIMITATION, DAMAGE TO TAPES) RESULTING FROM THE USE OF THIS PRODUCTS, OR ARISING OUT OF ANY BREACH OF THE WARRANTY. ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE, ARE LIMITED TO THE APPLICABLE WARRANTY PERIOD SET FORTH ABOVE. Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above exclusions or limitations may not apply to you.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

If a problem with this product develops during or after the warranty period, you may contact your dealer or Servicenter. If the problem is not handled to your satisfaction, then write to the Customer Satisfaction Center at the Panasonic Consumer Electronics Company address above.

SERVICE CALLS WHICH DO NOT INVOLVE DEFECTIVE MATERIALS OR WORKMANSHIP AS DETERMINED BY THE WARRANTOR, IN ITS SOLE DISCRETION, ARE NOT COVERED. COSTS OF SUCH SERVICE CALLS ARE THE RESPONSIBILITY OF THE PURCHASER.

warvid 10/20/97

Para ajustar el idioma, canal y reloj

1 Encienda el televisor y la videgrabadora.
Presione POWER.

2 Sintonice el televisor al canal de salida de la videgrabadora.

(el mismo canal que ha ajustado en la parte trasera de la videgrabadora; canal 3 o 4).

- Sintonice siempre el televisor en este canal para obtener la pantalla de videgrabadora.
- Si esta usando los terminales de audio/ video para su conexión, ajuste el televisor al modo de entrada de video.

3

SELECT LANGUAGE
PUSH VCR CH ▲: ENGLISH
OPRIMIR VCR CH ▼: ESPAÑOL
APP. VCR/TV : FRANÇAIS

Seleccione el lenguaje.

Oprimir CH ▲ para elegir el idioma de la pantalla en inglés.

Oprimir CH ▼ para elegir el idioma de la pantalla en español.

Oprimir VCR/ TV para elegir el idioma de la pantalla en francés.

4

FIJACION AUTO. (CA/RELOJ)
CONECTE EL CABLE DE LA ANTENA Y SI ESTA USANDO UNA CAJA DE TV POR CABLE SINTONICE AL CANAL PBS DE SU LOCAL LUEGO...

Comience el ajuste automático de canales y el ajuste automático del reloj.

Presione CH▲.

POR FAVOR OPRIMIR CH UP

FIJACION AUTOMATICA DEL RELOJ EN PROCESO

AUTOPROGRAMACION EN PROCESO

Caso 1 (Ajuste terminado)

1/ 4/2000 MAR 12:00PM
HORA VERANIEGA: ACT
CANAL FIJADO : CA 02
FIJACION AUTOMATICA COMPLETO
TERMINAR : OPRIMIR CH UP

Presione CH▲ para salir.

Caso 2 (Ajuste sin terminar)

FIJACION AUTOMATICA DEL RELOJ INCOMPLETO
OPRIMIR ACTION PARA FIJAR EL RELOJ

Caso 2 El ajuste del reloj es incompleto.

Ajuste el reloj manualmente.

- 1) Presione ACTION.
- 2) Presione ▲▼ para seleccionar el mes.
- 3) Presione ► para ajustar.
 - De la misma manera, ajuste el día, el año, la hora y la hora de ahorro de energía (VERANO). Para hacer correcciones, presione repetidamente ◀▶ para moverse hasta el error, luego corrijalo.
- 4) Presione ACTION. (El reloj se activa.)
 - Para salir de este modo, pulse la tecla ACTION nuevamente.

Ajustar de nuevo el reloj

1

----- MENU -----
PREPARAR VCR
FIJACION DE FUNCIONES
FIJAR RELOJ
FIJAR CANAL
LANGUE/LANGUAGE: ESPAÑOL
ELEGIR: ▲▼
FIJAR : ►
TERMINAR: ACTION

Presione ▲▼ para seleccionar "FIJAR RELOJ".

2

----- FIJAR RELOJ -----
FIJACION AUTOMATICA
MANUAL
AJUSTE ZONA HORA : 0
ELEGIR: ▲▼
FIJAR : ◀▶
TERMINAR: ACTION

Presione ►.

3

-----FIJAR RELOJ-----
1/ 4/2000 MAR 12:00PM
VERANO: ACT/1
ELEGIR HORA
ELEGIR: ▲▼
FIJAR : ◀▶
TERMINAR: ACTION

Presione ▲▼ para seleccionar "MANUAL" y luego presione ►.

4 Presione ▲▼ y ◀▶ para seleccionar y ajustar la hora y la fecha.

5 Presione ACTION dos veces para que el reloj comience a funcionar y salir desde este modo.

Operaciones básicas para la reproducción

1 Inserte un casete.

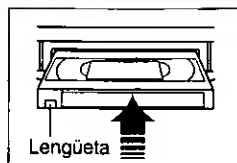
- La videgrabadora se enciende automáticamente.

2 Presione PLAY.

- La reproducción comienza si el casete no tiene la lengüeta para prevención de grabación.
- Para encontrar una escena en particular
Búsqueda hacia adelante ---> Presione FF.
Búsqueda hacia atrás ---> Presione REW.
- Para ver en cámara lenta ---> Presione SLOW.
- Para ver una imagen fija (congelada) ---> Presione PAUSE.
- Para ver imágenes cuadro a cuadro ---> Presione SLOW en el modo de imagen fija.
- Para parar ---> Presione STOP.
- Para rebobinar la cinta ---> Presione REW.
- Para expulsar la cinta ---> Presione STOP/ EJECT en el videgrabadora.

Operaciones básicas para la grabación

1



Inserte un casete.

- La videograbadora se enciende automáticamente.

2 Seleccione el canal.

Presione CH ▲▼ o las teclas numéricas correspondiente.

3 Seleccione la velocidad de grabación.

Presione SPEED.

- SP = Reproducción estándar,
- LP = Larga duración,
- SLP = Superlarga duración.

4 Comience la grabación.

Presione REC.

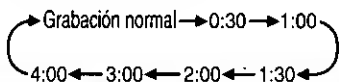
- Presione PAUSE para hacer una pausa en la grabación en progreso.

■ Para parar ---> Presione STOP.

■ Grabación de un toque

Presione REC repetidamente para ajustar la hora de grabación (30 min - 4 horas).

- La videograbadora termina la grabación a una hora programada.



Programación fácil para la grabación con temporizador

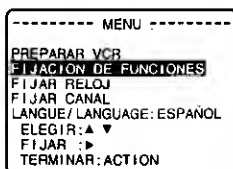
1 Exhiba el menú.

Presione ACTION.*

Exhibe la pantalla de la programación.

- Si ya existe un programa en la memoria, presione ▲▼ y ► para seleccionar un número de programa sin usar.

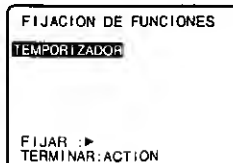
2



Exhibe "FIJACION DE FUNCIONES."

- 1) Presione ▲▼ para seleccionar.
- 2) Presione ► para exhibir.

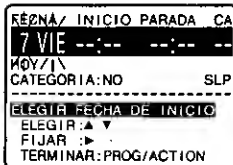
3



Exhibe "TEMPORIZADOR."

- 1) Presione ► para exhibir.
 - Si ya existe un programa en la memoria, presione ▲▼ y ► para seleccionar un número de programa sin usar.

4

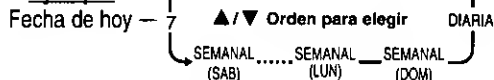


Ajuste la fecha de grabación.

- 1) Presione ▲▼ para seleccionar.
- 2) Presione ► o ◀ para ajustar.

- 1~31 = Grabación única
- DIARIO = a la misma hora de lunes a viernes
- SEMANA = a la misma hora una vez a la semana

Ejemplo



Repita el paso 3 para ajustar: hora de comienzo, hora de parada, canal (o LINEA para una fuente exterior), categoría*, velocidad (SP, LP, SLP).

*Categoría

NO, DEPORTE, CINE, COMEDIA, MUSICA, DRAMA

5

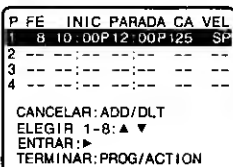


Haga las anotaciones necesarias.

- Si no fueran necesarias, vaya al paso 6.

- 1) Presione ▲ para hacerlas.
- 2) Presione ▲▼ para seleccionar.
- 3) Presione ► para ajustar.
- 4) Presione PROG (o ACTION) para salir.

6



Termine el programa.

- 1) Presione PROG (o ACTION).
- Para introducir más programas.

Presione ▲▼ y ► para seleccionar y ajustar el número de programa en blanco. Luego repita los pasos 4 y 5.

- 2) Presione PROG (o ACTION) para salir.

7



Pantalla multifuncional

Grabación con temporizador.

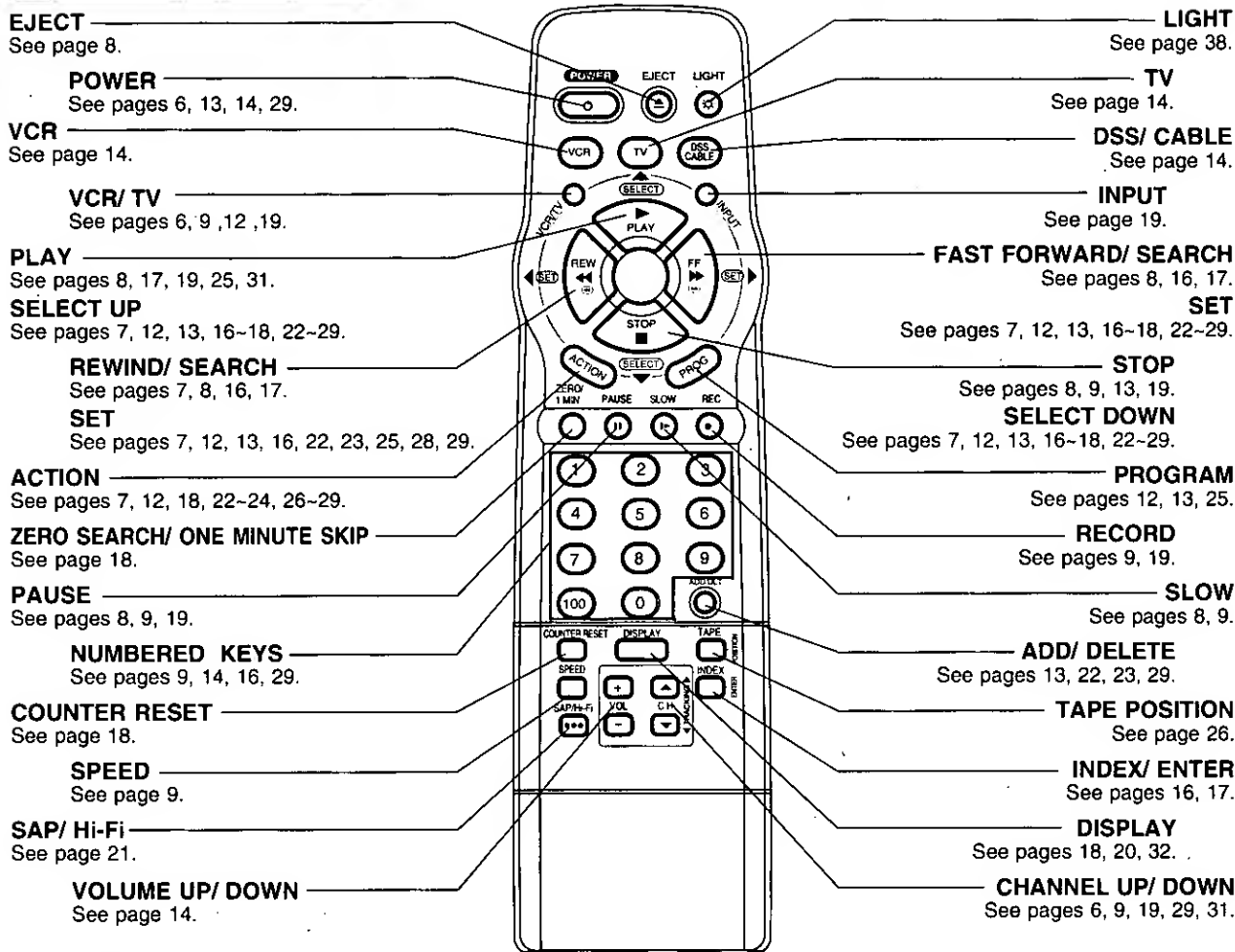
Presione POWER para apagar.

- Si la fuente de la grabación es una caja de TV por cable, asegúrese de que la caja de TV por cable esté encendida y esté sintonizada al canal que desea grabar.

Location of Controls

Remote control Buttons

Model PV-9450 remote is shown here.

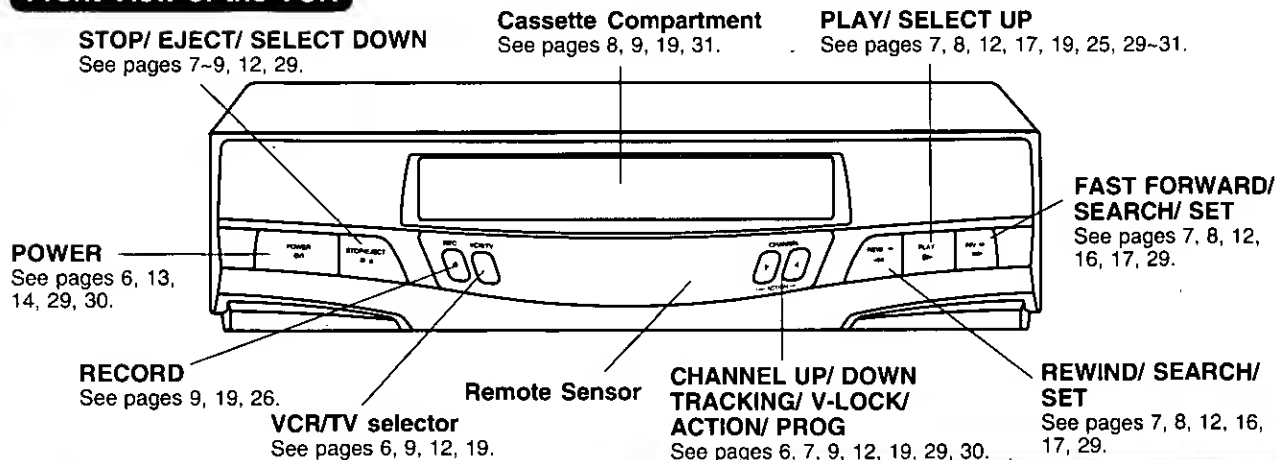


Light Tower Universal Remote Control

Light button: When the LIGHT button is pressed, the buttons which can be activated in the selected mode will light and the selected mode button (TV/VCR or CABLE DSS) will flash for 5 seconds. If no buttons are pressed within 5 seconds, the light will turn off in order to conserve battery power. Also while holding down the buttons, the selected mode button will flash so you will be able to see, in the dark, which mode has been selected.

EJECT button: When EJECT is pressed, the tape is ejected from Cassette Compartment.
If EJECT is pressed during recording, the VCR will not respond to the command.

Front View of the VCR



Multi Function Display

VCR Indicator

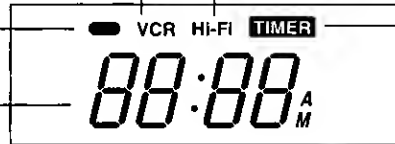
Lights when the VCR/TV selector is set to VCR.

Hi-Fi Indicator (For Model PV-9450 only)

Lights when Hi-Fi audio is monitored or playback.

Power Indicator

Lights when power is on.



Timer Indicator

Lights when the VCR is set for a Timer Recording, or when a length is set for a normal recording (OTR). Flashes when a Timer Recording is set, but a tape has not been inserted into the VCR.

Clock/ Status/ Channel/ Speed Display

Displays the current time. Briefly displays VCR status when a function button is pressed. Briefly displays the channel number, or "L" when a channel or line input is selected. Briefly displays the recording speed when SPEED is pressed.

Rear View of the VCR

AC Power Plug

While plugged into an AC outlet, the VCR consumes 3.5 W (3.7 W for model PV-9450) of electrical power in OFF condition.

Audio Output Connector

See page 19.

Video Input Connector

See page 19.

Audio Input Connector

See page 19.

Video Output Connector

See pages 11, 19, 20.

VHF/UHF Antenna Input Terminal

See pages 4, 10, 11, 20.

VHF/UHF Antenna Output Terminal

See pages 4, 10, 11, 19, 20.

Channel 3/4 Switch

See pages 4, 6.

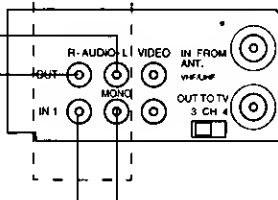
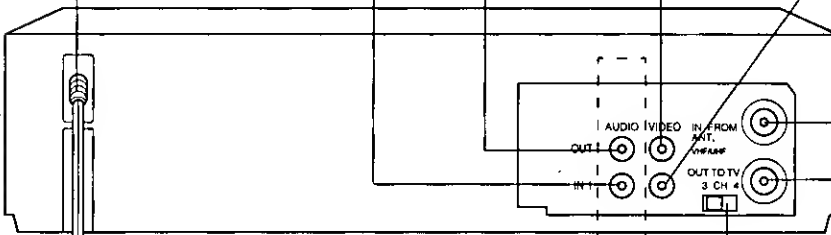
Audio Output Connector (L/R)

See pages 11, 19, 20.

Audio Input Connector (L/R)

See page 19.

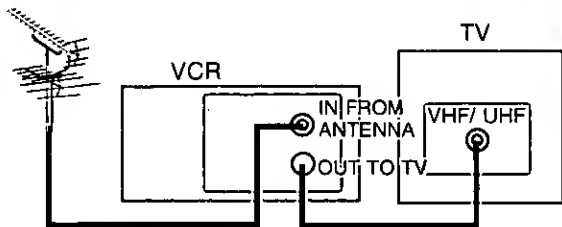
Rear View of Model PV-9450 VCR only



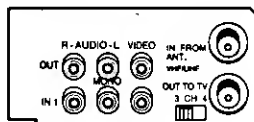
Quick Use Guide

Playback a Tape

- 1 Make all connections (page 4).



- 2 Set VCR Channel on VCR Rear Panel.



Back of Model
PV-9450 VCR only

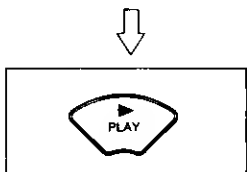
Slide the VCR
Channel selector
switch to the channel
number not used by
local broadcast
companies (CH3 or 4).

Tune your TV to the channel selected above (3 or 4)
whenever you want to see the picture from the VCR
on your TV screen.

- 3 Play your Tape.



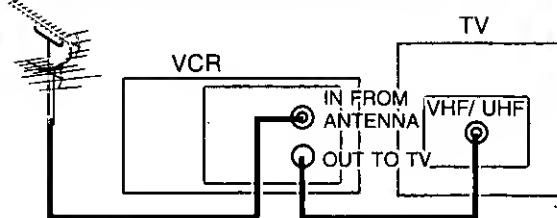
Insert a tape



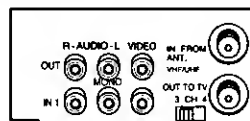
Press **PLAY**
(Start playback)

Record on a Tape

- 1 Make all connections (page 4).



- 2 Set VCR Channel on VCR Rear Panel.



Back of Model
PV-9450 VCR only

Slide the VCR
Channel selector
switch to the channel
number not used by
local broadcast
companies (CH3 or 4).

Tune your TV to the channel selected above (3 or 4)
whenever you want to see the picture from the VCR
on your TV screen.

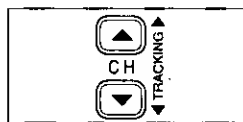
- 3 Do "One Time Setup" on page 6.

In order for the VCR to properly interface with your
equipment, some setup is necessary.

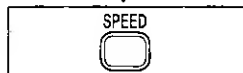
- 4 Record on a Tape.



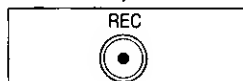
Insert a tape
with Record Tab



Press **CH Up/Down**.
(Select Channel)



Press **SPEED**.
(Select speed)



Press **REC**.
(Start Recording)

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